DOCUMENT RESUME

ED 439 028 SE 063 283

TITLE	Kindergarten to Grade 9 Mathematics Resources: Annotated Bibliography. Western Canadian Protocol for Collaboration in Basic Education Common Curriculum Framework.
INSTITUTION	Western Canadian Protocol for Collaboration in Basic Education, Edmonton (Alberta).
ISBN	ISBN-0-7785-0567-7
PUB DATE	1999-08-00
NOTE	148p.; For the Grade 10-12 Math Resources, see ED 424 102. For the Common Curriculum Framework, see ED 394 793. The Western Canadian Protocol is made up of the governments of Manitoba, Saskatchewan, British Columbia, Yukon Territory, Northwest Territories, and Alberta.
AVAILABLE FROM	For full text: http://www.wcp.ca/.
PUB TYPE	Reference Materials - Bibliographies (131)
EDRS PRICE	MF01/PC06 Plus Postage.
DESCRIPTORS	*Educational Resources; Elementary Education; Foreign Countries; *Instructional Materials; *Mathematics Curriculum
IDENTIFIERS	*Canada (West)

ABSTRACT

This annotated bibliography identifies the English language resources endorsed by all Western Canadian Protocol (WCP) jurisdictions implementing The Common Curriculum Framework for K-12 Mathematics for Kindergarten to Grade 9 (Common Curriculum Framework). Resources in this annotated bibliography were selected through a collaborative review process, based on their high level of fidelity with the rationale, philosophy, mathematical processes, and outcomes of the Common Curriculum Framework. These resources underwent an intensive review and were found to be the most suitable of those submitted. The resources in this bibliography are organized by grade, then alphabetically by title. Resources that are suitable at more than one grade appear in each of the applicable grades, thus providing a comprehensive list of materials for each grade. Descriptions have been written for each resource. Where material is deemed to be particularly useful for students with special needs or for small populations, e.g., learning disabled or gifted, this information is included in the audience section of the annotation. An alphabetical title listing at the end of the bibliography indicates the designated grade(s) of each resource. (ASK)

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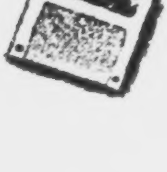
ED 439 028

WESTERN CANADIAN PROTOCOL
for collaboration in basic Education
COMMON CURRICULUM FRAMEWORK

Kindergarten to Grade 9 Mathematics Resources

Annotated Bibliography



SE063383

August 1999

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Western Canadian Protocol
for Collaboration in Basic Education
Common Curriculum Framework

Kindergarten to Grade 9
Mathematics Resources

Annotated Bibliography

AUGUST 1999

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Northwest Territories and Alberta

CATALOGUING IN PUBLICATION DATA

Kindergarten to grade 9 mathematics resources : annotated bibliography.

Available in electronic format on the World Wide Web:
URL: http://www.wcp.ca/
ISBN 0-7785-0567-7

1. Mathematics — Study and teaching — Alberta — Bibliography.
2. Mathematics — Study and teaching — British Columbia — Bibliography.
3. Mathematics — Study and teaching — Manitoba — Bibliography.
4. Mathematics — Study and teaching — Saskatchewan — Bibliography.
5. Mathematics — Study and teaching — Northwest Territories — Bibliography.
6. Mathematics — Study and teaching — Yukon Territory — Bibliography.
I. Title. II. Title: Common Curriculum Framework. III. Title: Western Canadian Protocol for Collaboration in Basic Education.

QA14.C2.K51 1999 372.7

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Grade 6 .... Grade 6–Page 1
Grade 7 .... Grade 7–Page 1
Grade 8 .... Grade 8–Page 1
Grade 9 .... Grade 9–Page 1
Title Listing .... Title Listing–Page 1

INTRODUCTION

Background

The Western Canadian Protocol for Collaboration in Basic Education Kindergarten to Grade 12 was signed in December 1993 by the ministers of education from Manitoba, Saskatchewan, Alberta, British Columbia, Yukon Territory and the Northwest Territories. *The Common Curriculum Framework for K–12 Mathematics*, for Kindergarten to Grade 9, was released in June 1995.

Foreword

This annotated bibliography identifies the English language resources endorsed in April 1999, by all Western Canadian Protocol (WCP) jurisdictions implementing *The Common Curriculum Framework for K–12 Mathematics*, for Kindergarten to Grade 9 (Common Curriculum Framework). For a complete listing of WCP approved resources for Kindergarten to Grade 9 mathematics, refer to this document and the May 1997 edition of the WCP Kindergarten to Grade 9 Mathematics Resources Annotated Bibliography, or visit the WCP web site at <http://www.wcp.ca>.

Resources in this annotated bibliography were selected, through a collaborative review process, based on their high level of fidelity with the rationale, philosophy, mathematical processes and outcomes of the Common Curriculum Framework. The resources have undergone an intensive review and were found to be the most suitable of those submitted.

Acknowledgments

The Western Canadian Protocol jurisdictions would like to thank everyone involved in the review and selection processes to identify the best student and teacher resources to support the Kindergarten to Grade 12 mathematics framework. In 1999, 38 teachers and ministry staff were selected by the participating jurisdictions to review 791 items for Kindergarten to Grade 9, which were received in response to the invitation to publishers, producers and distributors for resource submissions.

Appreciation is also extended to all the school systems in the WCP jurisdictions that supported teachers participating in the review processes.

Finally, appreciation is extended to the publishers, producers and distributors who, in many cases, engaged in significant development to provide resources specifically designed for the Common Curriculum Framework.

Organization

The resources in this bibliography are organized by grade, then alphabetically by title. Resources that are suitable at more than one grade appear in each of the applicable grades, thus providing a comprehensive list of materials for each grade.

Annotations with resource descriptions have been written for each resource. Where material is deemed to be particularly useful for students with special needs or for small populations; e.g., learning disabled, gifted, this information is included in the *Audience* section of the annotation.

An alphabetical title listing at the end of the bibliography indicates the designated grade(s) of each resource.

Note: In the annotations, Common Curriculum Framework is used to refer to *The Common Curriculum Framework for K–12 Mathematics: Western Canadian Protocol for Collaboration in Basic Education*—the Kindergarten to Grade 9 framework.

Alternate Format(s)

Some of the WCP approved resources are or may be available in alternate formats to address the needs of students who are visually impaired, print disabled or hearing impaired. This information is included in the annotations.

Pricing Information

The prices appearing in this document represent the estimated WCP prices to schools and should be firm until August 31, 2000.

These prices should be used as a guideline for purchase planning. They are applicable to all six participating jurisdictions (four provinces and two territories). The final selling prices for these resources may vary slightly in jurisdictions with book bureaus, depending upon jurisdictional negotiations. Confirmation of pricing should be obtained directly from your jurisdictional book bureau or redistribution centre, if applicable.

For video resources, special video licencing arrangements may be negotiated by individual jurisdictions with appropriate video distributors. Contact your provincial/territorial video distribution centre for details.

Resource Category

All learning and teaching resources included in this annotated bibliography were approved by the Western Assistant Deputy Ministers' Steering Committee and designated as WCP Key Resources for the Common Curriculum Framework.

Definitions

Fidelity is the degree to which the learning or teaching resource addresses the general and specific outcomes in the Common Curriculum Framework.

WCP Key Resources are high quality learning and teaching resources that best address the philosophy and content of the outcomes embodied in the Common Curriculum Framework. These include resources in a variety of media and formats, with the following characteristics:

- *Breadth* identifies learning resources with the highest possible level of fidelity with the Common Curriculum Framework general and specific outcomes published for a particular grade.
- *Depth* identifies learning resources that address only a subset of the outcomes with a high level of fidelity, but provide an especially effective learning experience for students.
- *Breadth and Depth* identifies comprehensive learning resources that provide both the *breadth* and *depth* dimensions for a particular grade.
- *Teacher* identifies resources that assist teachers with the implementation of the Common Curriculum Framework.

Criteria for the Selection of Learning and Teaching Resources

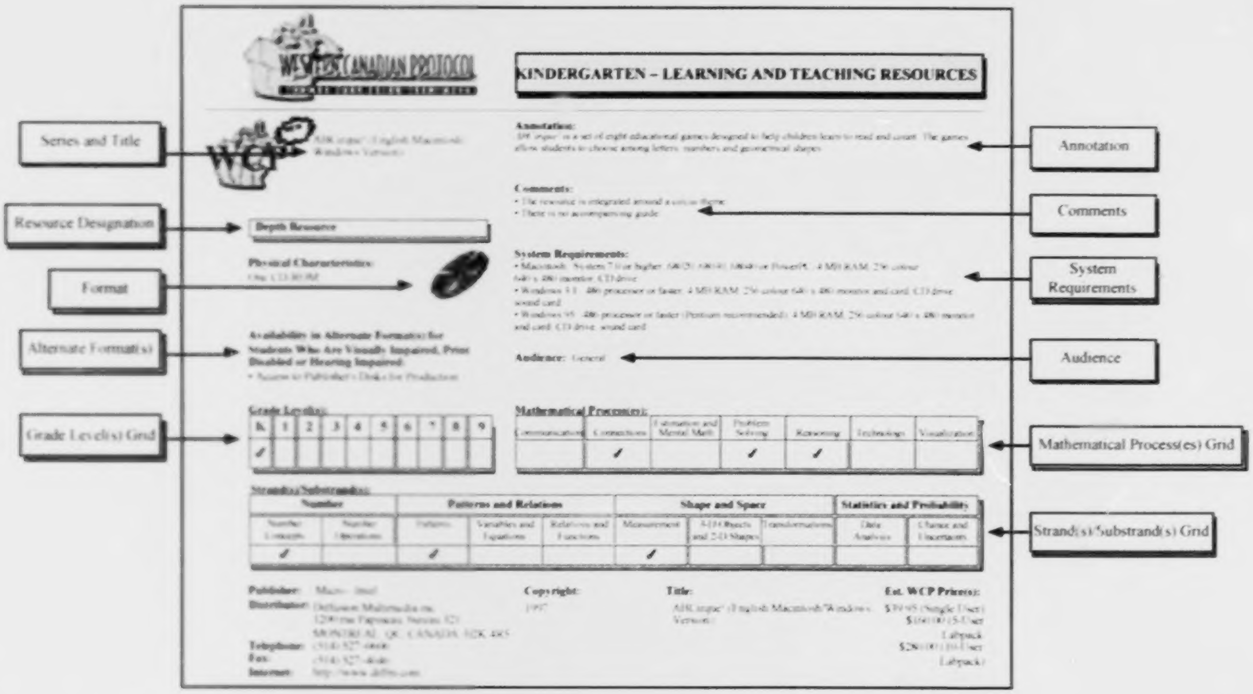
Resources in this annotated bibliography were selected according to the following criteria:

- *Content and Curriculum Fit* includes how effectively a learning or teaching resource supports any given learning outcome within a strand or substrand and meets student needs.
- *Instructional Design* includes the organization and presentation techniques; the methods used to introduce, develop and summarize concepts; the vocabulary level of the resource; and the suitability to student learning styles or to special audiences.
- *Technical Design* includes binding, type of print, quality of illustrations, durability and format. For software, such factors as hardware requirements, ease of navigation and robustness of programming are considered. For multimedia resources, such factors as pacing, quality of pictures/sound, user friendliness, use of special features for emphasis and interactivity are considered.
- *Social Considerations* includes screening for social concerns.

When selecting learning and teaching resources from this list, consideration should be given to how the resources meet the learning needs of students and to the perspectives of the local community.

Information on a resource may be obtained from the descriptions in this bibliography, from the distributor, from published reviews or colleagues, and from an examination of the resource.

SAMPLE ANNOTATION



KINDERGARTEN – LEARNING AND TEACHING RESOURCES

Annotation:

Comments:

Depth Resource

Physical Characteristics:
One CD-ROM

System Requirements:

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓									

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓				

Publisher:
Distributor:
Telephone:
Fax:
Internet:

Copyright:
1997

Title:

Est. WCP Price(s):

- *Series and Title:* series names are indicated by italics.
  - The "New" icon identifies what is new for 1999. It may be a new resource or a new component in a multicomponent resource.
- *Resource Designation:* indicates breadth, depth, breadth and depth, or teacher resource.
- *Format:* is represented by an icon, such as:

CD-ROM

Kit

Print

Software

Videocassette

- *Alternate Format(s):* indicates which resources are or could be available in alternate formats for students who are visually impaired or print disabled.
- *Grade Level(s) Grid:* indicates the suitable grade level(s) of the resource.
- *Strand(s) Substrand(s) Grid:* allows teachers to see, readily, the fit between the Common Curriculum Framework strands/substrands and the outcomes covered in the resource.
- *Annotation:* provides an overview of the resource.
- *Comments:* provide additional information about the resource.
- *Cautions:* alert teachers to potentially sensitive issues/community concerns, or concerns about curriculum fit.
- *System Requirements:* specify the type of hardware required to run the software, and any other system information.
- *Audience:*
  - General: the majority of students.
  - Learning Disabled (LD): students who have difficulty in processing and understanding spoken, written or visual information.
  - Gifted: students who give evidence of high perfomance capability in areas such as intellect, creativity, or specific academic disciplines.
  - ESL: students who are learning English as a second language.
  - ID (Mild): students with mild mental handicaps.
- *Mathematical Process(es) Grid:* identifies those processes students will use when working through the activities provided in the resource.

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WCP NEW

ABCirque! (English Macintosh/ Windows Version)

Depth Resource

Physical Characteristics:
One CD-ROM

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
ABCirque! is a set of eight educational games designed to help children learn to read and count. The games allow students to choose among letters, numbers and geometrical shapes.

Comments:
- The resource is integrated around a circus theme.
- There is no accompanying guide.

System Requirements:
- Macintosh: System 7.0 or higher; 68020, 68030, 68040 processor or PowerPC, 4 MB RAM, 256 colour 640 x 480 monitor, CD drive
- Windows 3.1: 486 processor or faster, 4 MB RAM, 256 colour 640 x 480 monitor and card, CD drive, sound card
- Windows 95: 486 processor or faster (Pentium recommended), 4 MB RAM, 256 colour 640 x 480 monitor and card, CD drive, sound card

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓									

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓		✓	✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓		✓			✓				

Publisher: Micro - Intel
Distributor:

Telephone:

Copyright:
1997

Title:
ABCirque! (English Macintosh/Windows Version)

Est. WCP Price(s):
$39.95 (Single User)
$160.00 (5-User Labpack)
$280.00 (10-User Labpack)

Active Learning Series
The Exclusive Numberline: Teaching Number Sense and Numeration: Grades K–3, Ages 5–8

Teacher Resource

Author(s):
Danbrook, C

Physical Characteristics:
Approximately 150 pages, 3-ring binder

Annotation:
This teacher resource is used to teach number concepts and operations. Each activity includes the focus outcome, presentation of the concept, assessment ideas, as well as a "Big Math Idea." Blackline masters are included, but most activities require minimal preparation.

Comments:
- A floor number line would be helpful

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166, (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1997

Title:
The Exclusive Numberline: Teaching Number Sense and Numeration: Grades K–3, Ages 5–8

Est. WCP Price(s):
$34.95

NEW

WCP Graphers (Macintosh/Windows Version)

Depth Resource

Annotation:
This graphing tool allows the user to collect, organize and display data in various forms of charts and graphs appropriate to grade level. It also allows for communicating information about the data in an on-screen notebook. This program features a variety of topics, complete with icons, a split screen to view more than one chart and/or graph, a work space where students can manipulate data, and a teacher's option feature. The teacher resource guide gives sample lessons at grade level, step by step instructions on how to use the program and a set of blackline masters.

Physical Characteristics:
One CD-ROM and a Teacher's Guide – approximately 75 pages – all in a 3-ring binder

Comments:
- This program features a teacher's option that allows the teacher to select graphs according to a student's grade level, select number types – fractions, decimals, per cents; modify data sets; select graphing speed, and change sound options.
- There is one icon in the classroom section, within the data maker tool Counting Data, that displays the American flag; it can be hidden by using the preferences under the edit tool.

System Requirements:
- Macintosh: System 6.0.7 or higher, 68020 processor or higher, 2 MB RAM
- Windows 3.1: Windows 3.1 or higher, 2 MB RAM

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:
1997

Title:
Graphers (Macintosh/Windows Version)

Est. WCP Price(s):
$99.95

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#1 NEW

WCP

Hands-On Math: Manipulatives Activities for the K–1 Classroom

Teacher Resource

Author(s):
Johnson, V

Physical Characteristics:
224 pages, softcover

Annotation:
This resource provides a choice of activities within each strand of the Common Curriculum Framework, to meet a variety of student levels. Several learning strategies are employed within each activity. Manipulatives that are commonly found in classrooms can be used to carry out the activities.

Audience: General/Gifted/LD

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	

Publisher: Creative Teaching Press
Distributor: Spectrum Educational Supplies Ltd
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:
1994

Title:
Hands-On Math: Manipulatives Activities for the K–1 Classroom

Est. WCP Price(s):
$23.95

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NEW

WCP

Active Learning Series

Learn with "Matty" on the Calcu-Mat: Grades K–3, Ages 5–8

Depth Resource

Author(s):
Janes, R

Physical Characteristics:
Vinyl mat and teacher material—about 50 pages, coilbound

Annotation:
This resource contains a 52 inch by 60 inch vinyl calculator mat and a student guide. The activities are designed to introduce calculator skills through touching the keys on the mat.

Comments:
- This resource lends itself to language development

Audience: General/ESL/LD

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓		✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166, (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1993

Title:
Learn with "Matty" on the Calcu-Mat: Grades K–3, Ages 5–8

Est. WCP Price(s):
$44.95

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NEW

WCP Measure for Measure: Using Portfolios in K–8 Mathematics

Teacher Resource

Author(s):
Kuhs, T M

Physical Characteristics:
118 pages, softcover

Annotation:
This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics It describes how teachers can use portfolios and explain portfolio assessment to students and parents It also provides information on using rubrics for assessing portfolios

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Heinemann
Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3
Telephone: (800) 263–7824 ; (416) 798–0424
Fax: (416) 798–1384
Internet: http //www irwin-pub com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997	0435071351	Measure for Measure Using Portfolios in K–8 Mathematics	$27 80

Mighty Math

Mighty Math Carnival Countdown (Macintosh/Windows School Version)

Depth Resource

Physical Characteristics:
Two CD-ROMs and a manual – 76 pages – all in a 3-ring binder

Annotation:
This program addresses the number concepts, number operations and patterns substrands for Kindergarten to Grade 2. The program is easy for students to use, levelling of activities is easy to access and preprogram for students. Sound and graphics are used, and the teacher resource manual is user-friendly.

Comments:
- Outcomes in Grade 1 are limited

System Requirements:
- Macintosh: System 7.0.1 or higher, 68040, 68030 (25 MHz or faster recommended) or PowerPC, 4 MB RAM (8 MB recommended), 256 colour, 13-inch or larger monitor, double speed CD drive
- Windows 3.1: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card
- Windows 95: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓							

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Edmark Corporation
Distributor: Edmark Corporation
6727 – 185 Ave NE
REDMOND, WA, USA 98073-9721
Telephone: (800) 426-0856, (425) 556-8436
Fax: (425) 556-8430
Internet: http://www.edmark.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	1569262810	Mighty Math Carnival Countdown (Macintosh/Windows School Version)	$59.95 (US)

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NEW

WCP

Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):
Ainsworth, L., Christinson, J

Physical Characteristics:
109 pages, softcover

Annotation:
This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided

Comments:
- This is a teacher resource that could be used across curriculum areas

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Addison-Wesley Longman
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1998	1572329211	Student Generated Rubrics An Assessment Model to Help All Students Succeed	$16.11

KINDERGARTEN - LEARNING AND TEACHING RESOURCES

NEW

The Super Source
The Super Source: Geoboards

Teacher Resource

Physical Characteristics:
96 pages, softcover

Annotation:
This is a teacher resource for using geoboards to teach the Number, Shape and Space, and Statistics and Probability strands. It provides ideas for assessment and provides links to other curriculum areas.

Comments:
- The resource does not include a set of geoboards.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓							

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓					✓		✓	

Publisher: Cuisenaire Company of America, Inc
Distributor: Spectrum Educational Supplies Ltd
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600 ; (905) 841-0600
Fax: (800) 668-0602 ; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	1574520067	The Super Source: Geoboards	$19.95

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NEW
WCP

The Super Source

The Super Source: Snap Cubes

Teacher Resource

Physical Characteristics:
95 pages, softcover

Annotation:
This teacher resource provides a set of activities with snap cubes. While the activities are episodic rather than systematic, the resource shows how some learning outcomes can be supported through the use of snap cubes. Activities are often challenging.

Comments:
- The resource does not include a set of snap cubes.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			✓

Publisher: Cuisenaire Company of America, Inc
Distributor: Spectrum Educational Supplies Ltd
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600 ; (905) 841-0600
Fax: (800) 668-0602 ; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	157452013X	The Super Source: Snap Cubes	$19.95

NEW

Active Learning Series

The Exclusive Numberline: Teaching Number Sense and Numeration: Grades K–3, Ages 5–8

Teacher Resource

Author(s):
Danbrook, C

Physical Characteristics:
Approximately 150 pages, 3-ring binder

Annotation:
This teacher resource is used to teach number concepts and operations. Each activity includes the focus outcome, presentation of the concept, assessment ideas, as well as a "Big Math Idea." Blackline masters are included, but most activities require minimal preparation.

Comments:

- A floor number line would be helpful.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166, (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1997

Title:
The Exclusive Numberline: Teaching Number Sense and Numeration: Grades K–3, Ages 5–8

Est. WCP Price(s):
$34.95

NEW

WCP

50 Problem Solving Lessons

Annotation:
This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives.

Audience: Teachers

Teacher Resource

Author(s):
Burns, M.

Physical Characteristics:
183 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	0941355160	50 Problem Solving Lessons	$20.79

Publisher: Addison-Wesley Longman Ltd
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

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NEW

WCP

Graphers (Macintosh/Windows Version)

Annotation:
This graphing tool allows the user to collect, organize and display data in various forms of charts and graphs appropriate to grade level. It also allows for communicating information about the data in an on-screen notebook. This program features a variety of topics, complete with icons, a split screen to view more than one chart and/or graph, a work space where students can manipulate data, and a teacher's option feature. The teacher resource guide gives sample lessons at grade level, step by step instructions on how to use the program and a set of blackline masters.

Depth Resource

Physical Characteristics:
One CD-ROM and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder

Comments:
- This program features a teacher's option that allows the teacher to select graphs according to a student's grade level, select number types—fractions, decimals, per cents, modify data sets, select graphing speed, and change sound options.
- There is one icon in the classroom section, within the data maker tool Counting Data, that displays the American flag, it can be hidden by using the preferences under the edit tool.

System Requirements:
- Macintosh: System 6.0.7 or higher, 68020 processor or higher, 2 MB RAM.
- Windows 3.1: Windows 3.1 or higher, 2 MB RAM.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:
1997

Title:
Graphers (Macintosh/Windows Version)

Est. WCP Price(s):
$99.95

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NEW

WCP

Hands-On Math: Manipulatives Activities for the K–1 Classroom

Teacher Resource

Author(s):
Johnson, V

Physical Characteristics:
224 pages, softcover

Annotation:
This resource provides a choice of activities within each strand of the Common Curriculum Framework, to meet a variety of student levels. Several learning strategies are employed within each activity. Manipulatives that are commonly found in classrooms can be used to carry out the activities.

Audience: General/Gifted/LD

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	

Publisher: Creative Teaching Press
Distributor: Spectrum Educational Supplies Ltd
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600, (905) 841-0600
Fax: (800) 668-0602, (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:
1994

Title:
Hands-On Math: Manipulatives Activities for the K–1 Classroom

Est. WCP Price(s):
$23.95

NEW

WCP

Active Learning Series
Learn with "Matty" on the Calcu-Mat: Grades K–3, Ages 5–8

Depth Resource

Author(s):
Janes, R

Physical Characteristics:
Vinyl mat and teacher material—about 50 pages, coilbound

Annotation:
This resource contains a 52 inch by 60 inch vinyl calculator mat and a student guide The activities are designed to introduce calculator skills through touching the keys on the mat

Comments:
- This resource lends itself to language development

Audience: General ESL LD

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓								

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓		✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563–1166, (705) 725–1166
Fax: (705) 725–1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1993

Title:
Learn with "Matty" on the Calcu-Mat Grades K–3, Ages 5–8

Est. WCP Price(s):
$44.95

NEW

WCP

Measure for Measure: Using Portfolios in K–8 Mathematics

Annotation:
This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Teacher Resource

Audience: Teachers

Author(s):
Kuhs, T. M.

Physical Characteristics:
118 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Heinemann
Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3
Telephone: (800) 263-7824; (416) 798-0424
Fax: (416) 798-1384
Internet: http://www.irwin-pub.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997	0435071351	Measure for Measure: Using Portfolios in K–8 Mathematics	$27.80

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NEW

Mighty Math

Mighty Math Carnival Countdown (Macintosh/Windows School Version)

Depth Resource

Physical Characteristics:
Two CD-ROMs and a manual—76 pages—all in a 3-ring binder

Annotation:
This program addresses the number concepts, number operations and patterns substrands for Kindergarten to Grade 2. The program is easy for students to use, levelling of activities is easy to access and preprogram for students. Sound and graphics are used, and the teacher resource manual is user-friendly.

Comments:
- Outcomes in Grade 1 are limited

System Requirements:
- Macintosh: System 7.0.1 or higher, 68040, 68030 (25 MHz or faster recommended) or PowerPC, 4 MB RAM (8 MB recommended), 256 colour, 13-inch or larger monitor, double speed CD drive
- Windows 3.1: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card
- Windows 95: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓							

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Edmark Corporation
Distributor: Edmark Corporation
6727 – 185 Ave NE
REDMOND, WA, USA 98073-9721
Telephone: (800) 426-0856 ; (425) 556-8436
Fax: (425) 556-8430
Internet: http://www.edmark.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	1569262810	Mighty Math Carnival Countdown (Macintosh/Windows School Version)	$59.95 (US)

Quest 2000: Exploring Mathematics (Grade 1)

- Student Book (Revised Edition)
- Teacher's Guide & Journal (Revised Edition)
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- NEW Developing Number Strategies
- NEW Exploration Centres: Activity Cards

Breadth and Depth Resource

Author(s):
Wortzman, R. et al

Physical Characteristics:

- Student Book–103 pages, softcover
- Teacher's Guide & Journal–464 pages, coilbound
- Extra Practice and Testing Masters (Student Edition, Teacher's Edition)–210 pages each, softcover
- Teacher Support Package–160 pages, softcover
- Problem of the Week–32 transparencies
- Professional Handbook–96 pages, softcover
- Developing Number Strategies–Approximately 150 pages, small format, coilbound
- Exploration Centres: Activity Cards–Approximately 150 pages, loose

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Annotation:

This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking, and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

- *Student Book*

This supports student work by providing real-world problems, data, vocabulary and a variety of visual representations. Students can record their feelings, thinking and understandings. Family notes suggest home activities to extend or reinforce learning.

- *Teacher's Guide & Journal*

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included and journal notes facilitate observations and planning. Special features of each unit include: math workouts with 5-minute activities to help students review concepts from previous units, student diversity pages to build a community of learners and provide strategies for students learning English, and technology exploration centres that use commercial software.

- *Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)*

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pre grade level content. A record chart and a comprehensive index are provided.

- *Teacher Support Package*

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French), blank stationery and activity-specific masters for home activities.

- *Problem of the Week*

Transparencies provide an easy way to display each problem of the week. An answer key is included.

- *Professional Handbook (Revised Edition)*

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change, Student Behavior and Attitudes, The Teacher's Role, Content, Assessment, Student Diversity, The Role of Technology, Communicating with Parents, Quest 2000 Content Grades K-6, and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

- *Developing Number Strategies*

This is a teacher resource designed to develop and enhance mental computational skills. There are 160 estimation and mental mathematics activities organized into sets of five – one for each day of the week. Answers are provided with the exercises. These activities are a stand-alone option and do not correlate directly with material in the student book.

- *Exploration Centres: Activity Cards*

This is a set of 60 activity cards that provides a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit. These cards provide further practice and extension activities for the concepts taught in the unit. Activity cards could be used to set up centres.

Comments:

- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator.
- Many key ideas are included by implication rather than by explicit statement.
- Addition and subtraction are explored to 12, rather than 18, using general manipulatives, pictures and symbols. The only manipulatives and contexts used for numbers up to 20 are coins to 20 cents for making purchases.
- The resource shows number words and links these to number symbols, but always gives a choice of representing numbers by number words or number symbols. It does not, therefore, include any activities that require the writing of number words.
- A glossary is included in the professional handbook, not the teacher's edition.
- The special role of zero in addition is not addressed and is taken for granted whenever addition and subtraction of 2-digit numbers is done later in the series.

Audience: General

Continued

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Continued

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓								

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Addison-Wesley Publishers Ltd

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1995	0201552612	• Student Book (Revised Edition)	$10.55
1995	0201552604	• Teacher's Guide & Journal (Revised Edition)	$114.45
1997	020165668X (Set)	• Extra Practice and Testing Masters (Student Edition, Teacher's Edition with Answers)	$45.75 (Set)
1997	020155262X	• Teacher Support Package	$45.75
1997	0201696029	• Problem of the Week	$45.75
1997	0201696010	• Professional Handbook (Revised Edition)	$22.85
1999	0201477971	• Developing Number Strategies	$34.95
1999	0201359995	• Exploration Centres: Activity Cards	$42.35

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NEW

Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):
Ainsworth, L., Christinson, J.

Physical Characteristics:
109 pages, softcover

Annotation:
This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:
- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Addison-Wesley Longman
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1998	1572329211	Student Generated Rubrics: An Assessment Model to Help All Students Succeed	$16.11

The Super Source

The Super Source: Geoboards

Teacher Resource

Physical Characteristics:
96 pages, softcover

Annotation:
This is a teacher resource for using geoboards to teach the Number, Shape and Space, and Statistics and Probability strands. It provides ideas for assessment and provides links to other curriculum areas.

Comments:

- The resource does not include a set of geoboards.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓							

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓					✓		✓	

Publisher: Cuisenaire Company of America, Inc.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600 ; (905) 841-0600
Fax: (800) 668-0602 ; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	1574520067	The Super Source: Geoboards	$19.95

NEW

The Super Source

The Super Source: Snap Cubes

Teacher Resource

Physical Characteristics:
95 pages, softcover

Annotation:
This teacher resource provides a set of activities with snap cubes While the activities are episodic rather than systematic, the resource shows how some learning outcomes can be supported through the use of snap cubes Activities are often challenging

Comments:

- The resource does not include a set of snap cubes

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			✓

Publisher: Cuisenaire Company of America, Inc
Distributor: Spectrum Educational Supplies Ltd
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600, (905) 841-0600
Fax: (800) 668-0602, (905) 727-6265
Internet: http //www spectrumed com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	157452013X	The Super Source Snap Cubes	$19 95

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NEW

WCP

Active Learning Series

The Exclusive Numberline: Teaching Number Sense and Numeration: Grades K–3, Ages 5–8

Teacher Resource

Author(s):
Danbrook, C

Physical Characteristics:
Approximately 150 pages, 3-ring binder

Annotation:
This teacher resource is used to teach number concepts and operations. Each activity includes the focus outcome, presentation of the concept, assessment ideas, as well as a "Big Math Idea." Blackline masters are included, but most activities require minimal preparation.

Comments:
- A floor number line would be helpful

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166, (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1997

Title:
The Exclusive Numberline: Teaching Number Sense and Numeration: Grades K–3, Ages 5–8

Est. WCP Price(s):
$34.95

NEW

50 Problem Solving Lessons

Teacher Resource

Author(s):
Burns, M

Physical Characteristics:
183 pages, softcover

Annotation:
This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Addison-Wesley Longman Ltd
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1996

ISBN: 0941355160

Title: 50 Problem Solving Lessons

Est. WCP Price(s): $20.79

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NEW

WCP

Graphers (Macintosh/Windows Version)

Annotation:
This graphing tool allows the user to collect, organize and display data in various forms of charts and graphs appropriate to grade level. It also allows for communicating information about the data in an on-screen notebook. This program features a variety of topics, complete with icons, a split screen to view more than one chart and/or graph, a work space where students can manipulate data, and a teacher's option feature. The teacher resource guide gives sample lessons at grade level, step by step instructions on how to use the program and a set of blackline masters.

Depth Resource

Physical Characteristics:
One CD-ROM and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder

Comments:
- This program features a teacher's option that allows the teacher to select graphs according to a student's grade level, select number types—fractions, decimals, per cents, modify data sets, select graphing speed, and change sound options.
- There is one icon in the classroom section, within the data maker tool Counting Data, that displays the American flag, it can be hidden by using the preferences under the edit tool.

System Requirements:
- Macintosh: System 6.0.7 or higher, 68020 processor or higher, 2 MB RAM
- Windows 3.1: Windows 3.1 or higher, 2 MB RAM

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115, (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:
1997

Title:
Graphers (Macintosh/Windows Version)

Est. WCP Price(s):
$99.95

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NEW

WCP

Measure for Measure: Using Portfolios in K–8 Mathematics

Annotation:
This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Teacher Resource

Audience: Teachers

Author(s):
Kuhs, T. M.

Physical Characteristics:
118 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Heinemann
Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3
Telephone: (800) 263-7824, (416) 798-0424
Fax: (416) 798-1384
Internet: http://www.irwin-pub.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997	0435071351	Measure for Measure: Using Portfolios in K–8 Mathematics	$27.80

NEW

Mighty Math

Mighty Math Carnival Countdown (Macintosh/Windows School Version)

Depth Resource

Physical Characteristics:
Two CD-ROMs and a manual—76 pages—all in a 3-ring binder

Annotation:
This program addresses the number concepts, number operations and patterns substrands for Kindergarten to Grade 2. The program is easy for students to use, levelling of activities is easy to access and preprogram for students. Sound and graphics are used, and the teacher resource manual is user-friendly.

Comments:
- Outcomes in Grade 1 are limited.

System Requirements:
- Macintosh: System 7.0.1 or higher, 68040, 68030 (25 MHz or faster recommended) or PowerPC, 4 MB RAM (8 MB recommended), 256 colour, 13-inch or larger monitor, double speed CD drive
- Windows 3.1: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card
- Windows 95: 486 (Pentium recommended), hard disk with up to 5 MB free, 8 MB RAM, Super VGA graphics, 256 colour 640 x 480 monitor, double speed CD drive, Windows-compatible sound card

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓							

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓							

Publisher: Edmark Corporation
Distributor: Edmark Corporation
6727 - 185 Ave NE
REDMOND, WA, USA 98073-9721
Telephone: (800) 426-0856 , (425) 556-8436
Fax: (425) 556-8430
Internet: http://www.edmark.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	1569262810	Mighty Math Carnival Countdown (Macintosh/Windows School Version)	$59.95 (US)

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Tenth Planet Explores Math: Geometry

Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Depth Resource

Physical Characteristics:
One CD-ROM, Teaching Guide—86 pages, coilbound, Quick Reference Card, "At a Glance" card, Technical Guide—30 pages, softcover—all in a 3-ring binder

Annotation:
This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:
- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:
- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external).
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
							✓		

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 , (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997–1998	188861868X (Teaching Guide)	Mirror Symmetry (Version 1.0 for Macintosh and Windows)	$99.95

Quest 2000: Exploring Mathematics (Grade 2)
- Student Book
- Teacher's Guide & Journal (Revised Edition)
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- NEW Developing Number Strategies
- NEW Exploration Centres: Activity Cards (Revised Edition)

Breadth and Depth Resource

Author(s):
Wortzman, R et al

Physical Characteristics:
- Student Book 103 pages, softcover
- Teacher's Guide & Journal 464 pages, coilbound
- Extra Practice and Testing Masters (Student Edition, Teacher's Edition) 232 pages each, softcover
- Teacher Support Package 155 pages, softcover
- Problem of the Week 32 transparencies
- Professional Handbook 96 pages, softcover
- Developing Number Strategies Approximately 100 pages, small format, coilbound
- Exploration Centres Activity Cards (Revised Edition) Approximately 150 pages, loose

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking, and to build a lifelong appreciation of and ability to use mathematics in everyday life This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families Assessment is linked to instruction This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level Technology suggestions are included

- *Student Book*

This supports student work by providing real-world problems, data, vocabulary and a variety of visual representations Students can record their feelings, thinking and understandings Family notes suggest home activities to extend or reinforce learning

- *Teacher's Guide & Journal*

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance Classroom management ideas are included and journal notes facilitate observations and planning Special features of each unit include math workouts with 5-minute activities to help students review concepts from previous units, student diversity pages to build a community of learners and provide strategies for students learning English, technology exploration centres that use commercial software

- *Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)*

These blackline masters provide students with opportunities to practise concepts and skills explored in the program Practice pages for each unit, and test pages for the end of each unit, are included A skills bank section allows for systematic practice of grade level and pre grade level content A record chart and a comprehensive index are provided

- *Teacher Support Package*

This set of activity masters, assessment masters and family masters may be used throughout the year The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance The family masters include program and unit introduction letters (also translated into French), blank stationery and activity-specific masters for home activities

- *Problem of the Week*

Transparencies provide an easy way to display each problem of the week An answer key is included

- *Professional Handbook (Revised Edition)*

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent It is divided into sections on The Need for Change, Student Behavior and Attitudes, The Teacher's Role, Content, Assessment, Student Diversity, The Role of Technology, Communicating with Parents, Quest 2000 Content Grades K-6, and a Glossary A Question and Answer format is used Although reference to Quest 2000 materials is made, the handbook also has general applicability

- *Developing Number Strategies*

This is a teacher resource designed to develop and enhance mental computational skills There are 160 estimation and mental mathematics activities organized into sets of five—one for each day of the week Answers are provided with the exercises These activities are a stand-alone option and do not correlate directly with material in the student book

- *Exploration Centres: Activity Cards (Revised Edition)*

This is a set of 61 activity cards that provide a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit These cards provide further practice and extension activities for the concepts taught in the unit Activity cards could be used to set up centres

Comments:
- Students are expected to construct their own methods of estimation and computation They have to explain and discuss their methods, with the teacher acting as a facilitator This even applies in cases where there have been conventional methods used, such as the trading of ones for tens in addition, or the splitting of tens into ones for subtraction
- Many key ideas are included by implication rather than by explicit statement Key ideas are included in the teacher materials but are not included in the student book Vocabulary development is confined to the teacher materials
- Activities, rather than written materials, are the focus of the program
- A glossary is included in the professional handbook, not the teacher's edition

Audience: General

Continued

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Continued

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓							

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Addison-Wesley Publishers Ltd
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1996	0201552639	• Student Book	$10.55
1996	0201552647	• Teacher's Guide & Journal (Revised Edition)	$114.45
1997	0201656698 (Set)	• Extra Practice and Testing Masters (Student Edition, Teacher's Edition with Answers)	$45.75 (Set)
1997	0201552655	• Teacher Support Package	$45.75
1997	0201696037	• Problem of the Week	$45.75
1997	0201696010	• Professional Handbook (Revised Edition)	$22.85
1999	020147798X	• Developing Number Strategies	$34.95
1998	0201360004	• Exploration Centres: Activity Cards (Revised Edition)	$42.35

GRADE 2 - LEARNING AND TEACHING RESOURCES

NEW

Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol

Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 2

Teacher Resource

Author(s):
Hauk, C. M., Quinn, B. A.

Physical Characteristics:
46 pages, coilbound

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This resource provides assistance for teachers in implementing the Common Curriculum Framework. Keyed directly to each illustrative example, it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the mathematical processes—communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization—that are associated with the corresponding specific outcomes. For added convenience, each page of this resource is cross-referenced to the page where the respective illustrative example appears in the Common Curriculum Framework.

Comments:
- This resource must be used directly with the original June 1995 Common Curriculum Framework, and not in connection with any documents derived from the Common Curriculum Framework and produced by individual jurisdictions.

Cautions:
- In a number of places there is scope for valid alternative methods of solving the illustrative examples. Sometimes the authors provide only one solution where more than one solution may be valid. Teachers should be aware of this, and should always remain respectful of valid alternative methods for solving the illustrative examples.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓							

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: C. Marie Hauk, Bryan A. Quinn
Distributor: Math Alive
315 Dechene Road
EDMONTON, AB, CANADA T6M 1W3
Telephone: (780) 487-8841
Fax: (780) 481-9913

Copyright:
1999

Title:
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 2

Est. WCP Price(s):
$9.75

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NEW

Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):
Ainsworth, L., Christinson, J.

Physical Characteristics:
109 pages, softcover

Annotation:
This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:
- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Addison-Wesley Longman
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1998
ISBN: 1572329211

Title:
Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Est. WCP Price(s):
$16.11

GRADE 2 - LEARNING AND TEACHING RESOURCES

NEW

WCP

The Super Source

The Super Source: Geoboards

Teacher Resource

Physical Characteristics:
96 pages, softcover

Annotation:
This is a teacher resource for using geoboards to teach the Number, Shape and Space, and Statistics and Probability strands. It provides ideas for assessment and provides links to other curriculum areas.

Comments:
- The resource does not include a set of geoboards

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓							

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓					✓		✓	

Publisher: Cuisenaire Company of America, Inc
Distributor: Spectrum Educational Supplies Ltd
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	1574520067	The Super Source: Geoboards	$19.95

GRADE 2 - LEARNING AND TEACHING RESOURCES

NEW

WCP

The Super Source

The Super Source: Snap Cubes

Teacher Resource

Physical Characteristics:
95 pages, softcover

Annotation:
This teacher resource provides a set of activities with snap cubes. While the activities are episodic rather than systematic, the resource shows how some learning outcomes can be supported through the use of snap cubes. Activities are often challenging.

Comments:
- The resource does not include a set of snap cubes.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			✓

Publisher: Cuisenaire Company of America, Inc.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600 ; (905) 841-0600
Fax: (800) 668-0602 ; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	157452013X	The Super Source: Snap Cubes	$19.95

Writing in Math Class: A Resource for Grades 2–8

Teacher Resource

Author(s):
Burns, M

Physical Characteristics:
197 pages, softcover

Annotation:
This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Publisher: Math Solutions Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028 ; (416) 447-5101
Fax: (800) 465-0536 ; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1995

ISBN:
0941355136 (Math Solutions Publications)
0201872323 (Addison-Wesley Longman)

Title:
Writing in Math Class: A Resource for Grades 2–8

Est. WCP Price(s):
$25.83

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NEW

Active Learning Series

The Exclusive Numberline: Teaching Number Sense and Numeration: Grades K–3, Ages 5–8

Teacher Resource

Author(s):
Danbrook, C

Physical Characteristics:
Approximately 150 pages, 3-ring binder

Annotation:
This teacher resource is used to teach number concepts and operations. Each activity includes the focus outcome, presentation of the concept, assessment ideas, as well as a "Big Math Idea." Blackline masters are included, but most activities require minimal preparation.

Comments:
- A floor number line would be helpful

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓						

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓								

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166, (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1997

Title:
The Exclusive Numberline: Teaching Number Sense and Numeration: Grades K–3, Ages 5–8

Est. WCP Price(s):
$34.95

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NEW

WCP 50 Problem Solving Lessons

Annotation:
This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives

Teacher Resource

Audience: Teachers

Author(s):
Burns, M

Physical Characteristics:
183 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Addison-Wesley Longman Ltd
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	0941355160	50 Problem Solving Lessons	$20.79

WCP

Gage Mathematics Assessment (Grade 3)

- Assessment Activities 3A
- Assessment Activities 3B
- Teacher's Resource Book: Grade 3

Teacher Resource

Author(s):
Flewelling, G., Lind, J., Sauer, R.

Physical Characteristics:
- Assessment Activities 3A 48 pages, paperbound
- Assessment Activities 3B 44 pages, softcover
- Teacher's Resource Book Grade 3 Approximately 200 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
Gage Mathematics Assessment (Grade 3) provides teachers with a bank of authentic assessment tasks for Grade 3 students. The activities allow teachers to assess in all four strands of the Common Curriculum Framework. Rubrics and student response samples are provided for each task. The 78 tasks (3A) are available in booklet form or as reproducible masters in the teacher's resource book. The 3B tasks are available in a small student book and can be used for homework projects.

Comments:
- Venn diagram DMP 301-1 is labelled incorrectly
- 3-D geometry is not included

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓						

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓			✓	✓

Publisher: Gage Educational Publishing Co
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 , (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1999	0771533640	• Assessment Activities 3A	$3.95
1999	0771533624	• Assessment Activities 3B	$9.95
1999	0771533632	• Teacher's Resource Book Grade 3	$89.95

BEST COPY AVAILABLE

NEW

WCP Graphers (Macintosh/Windows Version)

Annotation:
This graphing tool allows the user to collect, organize and display data in various forms of charts and graphs appropriate to grade level It also allows for communicating information about the data in an on-screen notebook This program features a variety of topics, complete with icons, a split screen to view more than one chart and/or graph, a work space where students can manipulate data, and a teacher's option feature The teacher resource guide gives sample lessons at grade level, step by step instructions on how to use the program and a set of blackline masters

Depth Resource

Physical Characteristics:
One CD-ROM and a Teacher's Guide—approximately 75 pages—all in a 3-ring binder

Comments:
- This program features a teacher's option that allows the teacher to select graphs according to a student's grade level, select number types—fractions, decimals, per cents, modify data sets, select graphing speed, and change sound options
- There is one icon in the classroom section, within the data maker tool Counting Data, that displays the American flag, it can be hidden by using the preferences under the edit tool

System Requirements:
- Macintosh System 6 0 7 or higher, 68020 processor or higher, 2 MB RAM
- Windows 3 1 Windows 3 1 or higher, 2 MB RAM

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 , (416) 293-8464
Fax: (416) 293-9009
Internet: http www gagelearning com

Copyright:
1997

Title:
Graphers (Macintosh Windows Version)

Est. WCP Price(s):
$99 95

NEW

WCP

Measure for Measure: Using Portfolios in K–8 Mathematics

Teacher Resource

Author(s):
Kuhs, T. M

Physical Characteristics:
118 pages, softcover

Annotation:
This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Heinemann
Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3
Telephone: (800) 263-7824 ; (416) 798-0424
Fax: (416) 798-1384
Internet: http://www.irwin-pub.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997	0435071351	Measure for Measure: Using Portfolios in K–8 Mathematics	$27.80

NEW

Tenth Planet Explores Math: Geometry
Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Depth Resource

Physical Characteristics:
One CD-ROM, Teaching Guide—86 pages, coilbound, Quick Reference Card, "At a Glance" card, Technical Guide—30 pages, softcover—all in a 3-ring binder

Annotation:
This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:
- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students
- The resource provides opportunities for a wide range of student learning needs
- One activity uses American coins

System Requirements:
- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external)
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
							✓		

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997-1998	188861868X (Teaching Guide)	Mirror Symmetry (Version 1.0 for Macintosh and Windows)	$99.95

Quest 2000: Exploring Mathematics (Grade 3)
- Student Book (Revised Edition)
- Teacher's Guide & Journal
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- Developing Number Strategies
- Exploration Centres: Activity Cards (Revised Edition)

Breadth and Depth Resource

Author(s):
Wortzman, R. et al

Physical Characteristics:
- Student Book: 268 pages, hardcover
- Teacher's Guide & Journal: 480 pages, coilbound
- Extra Practice and Testing Masters (Student Edition, Teacher's Edition): 197 pages each, softcover
- Teacher Support Package: 107 pages, softcover
- Technology Package: 34 pages, softcover, one 3.5" IBM disc, one 3.5" Macintosh disc
- Problem of the Week: 32 transparencies
- Professional Handbook: 96 pages, softcover
- Developing Number Strategies: Approximately 150 pages, small format, coilbound
- Exploration Centres: Activity Cards (Revised Edition): Approximately 150 pages, loose

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking, and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

•*Student Book*
The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practise Your Skills questions for practising mathematical skills independently at home or in class. Also included are a problem bank and skill bank at the end of each unit and questions for journal writing.

• *Teacher's Guide & Journal*
This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities, and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: math workouts with 5-minute activities to help students review concepts from previous units, student diversity pages to build a community of learners and provide strategies for students learning English, and technology exploration centres that use commercial software.

• *Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)*
These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pre grade level content. A record chart and a comprehensive index are provided.

• *Teacher Support Package*
This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.

• *Technology Package*
The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing, spreadsheet, draw, paint, and database environments. Exploration centres file discs are included.

• *Problem of the Week*
Transparencies provide an easy way to display each problem of the week. An answer key is included.

• *Professional Handbook (Revised Edition)*
This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change, Student Behavior and Attitudes, The Teacher's Role, Content, Assessment, Student Diversity, The Role of Technology, Communicating with Parents, Quest 2000 Content Grades K-6, and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

• *Developing Number Strategies*
This is a teacher resource designed to develop and enhance mental computational skills. There are 160 estimation and mental mathematics activities organized into sets of five – one for each day of the week. Answers are provided with the exercises. These activities are a stand-alone option and do not correlate directly with material in the student book.

• *Exploration Centres: Activity Cards (Revised Edition)*
This is a set of 68 activity cards that provide a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit. These cards provide further practice and extension activities for the concepts taught in the unit. Activity cards could be used to set up centres.

Comments:
- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods used, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the trading of ones for tens in addition, or the splitting of tens into ones for subtraction.
- Many key ideas are included by implication rather than by explicit statement. Key ideas are included in the teacher materials but are not included in the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's edition.
- The concepts related to the metric system of measurement are embedded in student tasks and are not made explicit.

Continued

Continued

Cautions:
- The software package was designed for Microsoft Works or ClarisWorks, and requires considerable *preparatory work before students can use it*

System Requirements:
- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher
- Windows 3.1: 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓						

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Addison-Wesley Publishers Ltd
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1996	0201552663	• Student Book (Revised Edition)	$24.35
1996	0201552671	• Teacher's Guide & Journal	$114.45
1997	0201656701 (Set)	• Extra Practice and Testing Masters (Student Edition, Teacher's Edition with Answers)	$45.75 (Set)
1997	020155268X	• Teacher Support Package	$45.75
1997	0201892438	• Technology Package	$49.20
1997	0201696045	• Problem of the Week	$45.75
1997	0201696010	• Professional Handbook (Revised Edition)	$22.85
1999	0201477998	• Developing Number Strategies	$34.95
1998	0201360012	• Exploration Centres: Activity Cards (Revised Edition)	$42.35

NEW

Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol

Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 3

Teacher Resource

Author(s):
Hauk, C. M., Quinn, B. A.

Physical Characteristics:
46 pages, coilbound

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This resource provides assistance for teachers in implementing the Common Curriculum Framework. Keyed directly to each illustrative example, it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the mathematical processes – communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization – that are associated with the corresponding specific outcomes. For added convenience, each page of this resource is cross-referenced to the page where the respective illustrative example appears in the Common Curriculum Framework.

Comments:
- This resource must be used directly with the original June 1995 Common Curriculum Framework, and not in connection with any documents derived from the Common Curriculum Framework and produced by individual jurisdictions.

Cautions:
- In a number of places there is scope for valid alternative methods of solving the illustrative examples. Sometimes the authors provide only one solution where more than one solution may be valid. Teachers should be aware of this, and should always remain respectful of valid alternative methods for solving the illustrative examples.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
			✓						

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: C. Marie Hauk, Bryan A. Quinn
Distributor: Math Alive
315 Dechene Road
EDMONTON, AB, CANADA T6M 1W3
Telephone: (780) 487-8841
Fax: (780) 481-9913

Copyright:
1999

Title:
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 3

Est. WCP Price(s):
$9.75

NEW

Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):
Ainsworth, L., Christinson, J.

Physical Characteristics:
109 pages, softcover

Annotation:
This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:
- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Addison-Wesley Longman
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1998	1572329211	Student Generated Rubrics: An Assessment Model to Help All Students Succeed	$16.11

GRADE 3 - LEARNING AND TEACHING RESOURCES

NEW

The Super Source
The Super Source: Snap Cubes

Teacher Resource

Physical Characteristics:
95 pages, softcover

Annotation:
This teacher resource provides a set of activities with snap cubes. While the activities are episodic rather than systematic, the resource shows how some learning outcomes can be supported through the use of snap cubes. Activities are often challenging.

Comments:
- The resource does not include a set of snap cubes.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			✓

Publisher: Cuisenaire Company of America, Inc
Distributor: Spectrum Educational Supplies Ltd
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600 ; (905) 841-0600
Fax: (800) 668-0602 ; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	157452013X	The Super Source: Snap Cubes	$19.95

NEW

WCP

Writing in Math Class: A Resource for Grades 2–8

Teacher Resource

Author(s):
Burns, M

Physical Characteristics:
197 pages, softcover

Annotation:
This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Publisher: Math Solutions Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1995

ISBN: 0941355136 (Math Solutions Publications) 0201872323 (Addison-Wesley Longman)

Title: Writing in Math Class: A Resource for Grades 2–8

Est. WCP Price(s): $25.83

GRADE 4 - LEARNING AND TEACHING RESOURCES

NEW

WCP

Data Explorer (Version 1.1 for Macintosh and Windows)

Depth Resource

Physical Characteristics:
One CD-ROM and a Teacher's Guide - 204 pages - all in a 3-ring binder

Annotation:
This resource is a very useful tool for collecting and representing data in graphs. Students create and administer surveys, either on paper or on the computer, input the data, if collected on paper, and then manipulate it to create graphic representations. An electronic notebook allows students to complete an analysis on-screen. The program supports line plots, with icon choices, bar graphs, histograms, broken line graphs, box and whisker plots, stem and leaf plots, scatter plots, Venn diagrams, circle graphs and tables.

Comments:
- The teacher support material includes a reference section that provides explanations of the functions of the program.
- The program often chooses axes that do not start at 0. This can be adjusted in some of the types of graphs.
- The program content extends beyond Grade 6.

System Requirements:
- Macintosh - System 7.0 or higher, 68040 processor or better, 33 MHz, 3.5 MB RAM, 256 colour 640 x 480 monitor
- Windows 3.1 - Windows 3.1 or higher, 386 processor or better, 256 colour 640 x 480 monitor
- Windows 95 - Windows 95 or higher, 486 processor or better (Pentium recommended), 256 colour 640 x 480 monitor

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 , (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright: 1998

Title: Data Explorer (Version 1.1 for Macintosh and Windows)

Est. WCP Price(s): $119.95

NEW

WCP 50 Problem Solving Lessons

Teacher Resource

Author(s):
Burns, M

Physical Characteristics:
183 pages, softcover

Annotation:
This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Addison-Wesley Longman Ltd
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	0941355160	50 Problem Solving Lessons	$20.79

NEW

WCP Graphers (Macintosh/Windows Version)

Depth Resource

Physical Characteristics:
One CD-ROM and a Teacher's Guide - approximately 75 pages - all in a 3-ring binder

Annotation:
This graphing tool allows the user to collect, organize and display data in various forms of charts and graphs appropriate to grade level. It also allows for communicating information about the data in an on-screen notebook. This program features a variety of topics, complete with icons, a split screen to view more than one chart and/or graph, a work space where students can manipulate data, and a teacher's option feature. The teacher resource guide gives sample lessons at grade level, step by step instructions on how to use the program and a set of blackline masters.

Comments:
- This program features a teacher's option that allows the teacher to select graphs according to a student's grade level, select number types - fractions, decimals, per cents, modify data sets, select graphing speed, and change sound options.
- There is one icon in the classroom section, within the data maker tool Counting Data, that displays the American flag; it can be hidden by using the preferences under the edit tool.

System Requirements:
- Macintosh - System 6.0.7 or higher, 68020 processor or higher, 2 MB RAM
- Windows 3.1 - Windows 3.1 or higher, 2 MB RAM

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 , (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:
1997

Title:
Graphers (Macintosh/Windows Version)

Est. WCP Price(s):
$99.95

BEST COPY AVAILABLE

WCP

In the Balance

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):
Kroner, L.

Physical Characteristics:
- In the Balance: Algebra Logic Puzzles Grades 4-6 78 pages, coilbound
- In the Balance: Algebra Logic Puzzles Grades 7-9 78 pages, coilbound

Annotation:
Each of these resources contains 25 reproducible logic-based number puzzles ranging from the simple to the very complex. These are extension activities that support a number of the Common Curriculum Framework mathematical processes.

Comments:
- These resources can also be used at the senior high school level in Relations and Functions.
- It would be beneficial to have both the Grades 4–6 booklet and the Grades 7–9 booklet, as it is necessary to introduce the puzzles at a simple stage of complexity—Grades 4–6—before teaching at the more complex—Grades 7–9—level.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓		✓						

Publisher: Creative Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1997	0762205512	In the Balance: Algebra Logic Puzzles Grades 4–6	$22.05
1997	0762205520	In the Balance: Algebra Logic Puzzles Grades 7–9	$22.05

NEW

Kay Toliver Files 2
- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Teacher Resource

Physical Characteristics:
- Distance, Time and Speed: One 15-minute videocassette
- Statistics: One 15-minute videocassette
- Circles: One 15-minute videocassette
- Decimals: One 15-minute videocassette
- Kay Toliver Files 2: Teacher's Guide 48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos.

Cautions:
- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749, (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Distance, Time and Speed	$125.00
1998		• Statistics	$125.00
1998		• Circles	$125.00
1998		• Decimals	$125.00
1998	079362858X	• Kay Toliver Files 2: Teacher's Guide	No charge with series purchase

NEW

WCP

Kay Toliver Files 3
- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Patterns-One 15-minute videocassette
- Length and Area-One 15-minute videocassette
- Volume-One 15-minute videocassette
- The Counting Principle-One 15-minute videocassette
- Kay Toliver Files 3: Teacher's Guide-48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos

Cautions:
- This resource package is an American product; the classroom setting is in Harlem

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749, (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Patterns	$125.00
1998		• Length and Area	$125.00
1998		• Volume	$125.00
1998		• The Counting Principle	$125.00
1998	0793628598	• Kay Toliver Files 3: Teacher's Guide	No charge with series purchase

NEW

Kay Toliver Files 4
- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Teacher Resource

Physical Characteristics:
- Variables: One 15-minute videocassette
- Ratios: One 15-minute videocassette
- Charts and Graphs: One 15-minute videocassette
- Percents: One 15-minute videocassette
- Kay Toliver Files 4: Teacher's Guide: 48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos

Cautions:
- This resource package is an American product; the classroom setting is in Harlem

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749; (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Variables	$125.00
1998		• Ratios	$125.00
1998		• Charts and Graphs	$125.00
1998		• Percents	$125.00
1998	0793629985	• Kay Toliver Files 4: Teacher's Guide	No charge with series purchase

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GRADE 4 - LEARNING AND TEACHING RESOURCES

NEW

Math by All Means

Math by All Means: Area and Perimeter: Grades 5–6

Teacher Resource

Author(s):
Rectanus, C

Physical Characteristics:
198 pages, softcover

Annotation:
This teacher resource presents strategies for and sample lessons on helping children learn about perimeter, area and the relationships between them. Each lesson consists of an overview, before the lesson preparation, introductory activity, lesson, class or student reflection, and assessments. The activities encourage students to have hands-on experiences and to develop critical thinking skills.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Math Solutions Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1994	0941355187	Math by All Means: Area and Perimeter Grades 5–6	$32.27

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Math On the Go II: Junior: Grades 4–6, Ages 9–11

Teacher Resource

Author(s):
Millar, N., Moore, N., Morrow, P.

Physical Characteristics:
Approximately 200 pages, loose, in a plastic case

Annotation:
Math On the Go II is a collection of student activity cards. The cards are colour-coded according to the strands—Number Sense and Numeration, Geometry and Spatial Sense, Patterning and Algebra, Measurement, Data Management and Probability, and Problem Solving. Blackline masters are included. Most of the activities use everyday materials. Every strand also has a materials list.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166, (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1998

Title:
Math On the Go II: Junior: Grades 4–6, Ages 9–11

Est. WCP Price(s):
$59.95

NEW

WCP

Measure for Measure: Using Portfolios in K–8 Mathematics

Annotation:
This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Teacher Resource

Author(s):
Kuhs, T. M.

Audience: Teachers

Physical Characteristics:
118 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Heinemann
Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3
Telephone: (800) 263-7824, (416) 798-0424
Fax: (416) 798-1384
Internet: http://www.irwin-pub.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997	0435071351	Measure for Measure: Using Portfolios in K–8 Mathematics	$27.80

NEW

Tenth Planet Explores Math: Geometry
Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Depth Resource

Physical Characteristics:
One CD-ROM, Teaching Guide - 86 pages, coilbound, Quick Reference Card, "At a Glance" card, Technical Guide - 30 pages, softcover - all in a 3-ring binder

Annotation:
This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication - oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:
- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:
- Macintosh - System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external)
- Windows 3.1 - 486 DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse
- Windows 95 - 486 DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
							✓		

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 , (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997-1998	188861868X (Teaching Guide)	Mirror Symmetry (Version 1.0 for Macintosh and Windows)	$99.95

67

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WCP

Quest 2000: Exploring Mathematics (Grade 4)
- Student Book
- Teacher's Guide & Journal: Solutions Manual
- Extra Practice and Testing Masters (Student Edition: Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- NEW Developing Number Strategies
- NEW Exploration Centres: Activity Cards (Revised Edition)

Breadth and Depth Resource

Author(s):
Wortzman, R. et al

Physical Characteristics:
- Student Book: 288 pages, hardcover
- Teacher's Guide & Journal: 464 pages, coilbound, Solutions Manual: 68 pages, softcover
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition): 184 pages each, softcover
- Teacher Support Package: 111 pages, softcover
- Technology Package: 32 pages, softcover, two 3.5" program discs
- Problem of the Week: 32 transparencies
- Professional Handbook: 96 pages, softcover
- Developing Number Strategies: Approximately 150 pages, softcover, small format
- Exploration Centres: Activity Cards (Revised Edition): Approximately 150 pages, loose

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• *Student Book*
The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practise Your Skills questions for practising mathematical skills independently at home or in class. At the end of each unit are a problem bank, a skill bank and questions for journal writing.
• *Teacher's Guide & Journal*
This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: mathematics workouts with 5-minute activities to help students review concepts from previous units, student diversity pages to build a community of learners and provide strategies for students learning English, and exploration centres, some of which use commercial software.
•*Solutions Manual*
This manual provides answers to questions presented in the Student Book. In instances where many solutions are possible, sample responses are provided.
• *Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)*
These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pregrade level content. A record chart and a comprehensive index are provided.
• *Teacher Support Package*
This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.
• *Technology Package*
The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing, spreadsheet, draw, paint and database environments. Exploration centres file discs are included.
• *Problem of the Week*
Transparencies provide an easy way to display each problem of the week. An answer key is included.
• *Professional Handbook (Revised Edition)*
This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change, Student Behavior and Attitudes, The Teacher's Role, Content, Assessment, Student Diversity, The Role of Technology, Communicating with Parents, Quest 2000 Content Grades K-6, and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.
• *Developing Number Strategies*
This is a teacher resource designed to develop and enhance mental computational skills. There are 160 estimation and mental mathematics activities organized into sets of five - one for each day of the week. Answers are provided with the exercises. These activities are a stand-alone option and do not correlate directly with material in the student book.
• *Exploration Centres: Activity Cards (Revised Edition)*
This is a set of 70 activity cards that provide a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit. These cards provide further practice and extension activities for the concepts taught in the unit. Activity cards could be used to set up centres.

Comments:
- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the lining up of decimal points for addition.
- Many key ideas are included by implication rather than by explicit statement. Key ideas are included in the teacher materials but are not included in the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's guide.

Continued

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Continued

Cautions:
- Money problems go to $25 not $50
- There is some extraneous material on fractions in Unit 6
- The software package was designed for Microsoft Works or ClarisWorks, and requires considerable preparatory work before students can use it

System Requirements:
- Macintosh - System 6.0.5 or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher
- Windows 3.1 - 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher
- Windows 95 - 486/50 MHz (Pentium recommended), 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Addison-Wesley Publishers Ltd

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028, (416) 447-5101

Fax: (800) 465-0536, (416) 443-0948

Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1996	0201552698	• Student Book	$24.35
1997	0201681293 (Set)	• Teacher's Guide & Journal, Solutions Manual	$114.45 (Set)
1997	020165671X (Set)	• Extra Practice and Testing Masters (Student Edition, Teacher's Edition with Answers)	$45.75 (Set)
1997	020155271X	• Teacher Support Package	$45.75
1997	0201898446	• Technology Package	$49.20
1996	0201696053	• Problem of the Week	$45.75
1997	0201696010	• Professional Handbook (Revised Edition)	$22.85
1999	0201478005	• Developing Number Strategies	$34.95
1998	0201360020	• Exploration Centres - Activity Cards (Revised Edition)	$42.35

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NEW

WCP

Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol

Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 4

Teacher Resource

Author(s):
Hauk, C. M., Quinn, B. A.

Physical Characteristics:
50 pages, coilbound

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This resource provides assistance for teachers in implementing the Common Curriculum Framework. Keyed directly to each illustrative example, it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the mathematical processes – communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization – that are associated with the corresponding specific outcomes. For added convenience, each page of this resource is cross-referenced to the page where the respective illustrative example appears in the Common Curriculum Framework.

Comments:
- This resource must be used directly with the original June 1995 Common Curriculum Framework, and not in connection with any documents derived from the Common Curriculum Framework and produced by individual jurisdictions.

Cautions:
- In a number of places there is scope for valid alternative methods of solving the illustrative examples. Sometimes the authors provide only one solution where more than one solution may be valid. Teachers should be aware of this, and should always remain respectful of valid alternative methods for solving the illustrative examples.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: C. Marie Hauk, Bryan A. Quinn
Distributor: Math Alive
315 Dechene Road
EDMONTON, AB, CANADA T6M 1W3
Telephone: (780) 487-8841
Fax: (780) 481-9913

Copyright:
1999

Title:
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 4

Est. WCP Price(s):
$9.75

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NEW

WCP

Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):
Ainsworth, L., Christinson, J.

Physical Characteristics:
109 pages, softcover

Annotation:
This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:

- This is a teacher resource that could be used across curriculum areas

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Addison-Wesley Longman
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1998
ISBN: 1572329211
Title: Student Generated Rubrics: An Assessment Model to Help All Students Succeed
Est. WCP Price(s): $16.11

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The Super Source
The Super Source: Snap Cubes

Teacher Resource

Physical Characteristics:
95 pages, softcover

Annotation:
This teacher resource provides a set of activities with snap cubes. While the activities are episodic rather than systematic, the resource shows how some learning outcomes can be supported through the use of snap cubes. Activities are often challenging.

Comments:
- The resource does not include a set of snap cubes.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓					

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓			✓

Publisher: Cuisenaire Company of America, Inc.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	157452013X	The Super Source: Snap Cubes	$19.95

NEW

WCP

Writing in Math Class: A Resource for Grades 2–8

Teacher Resource

Author(s):
Burns, M

Physical Characteristics:
197 pages, softcover

Annotation:
This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Publisher: Math Solutions Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1995	0941355136 (Math Solutions Publications) 0201872323 (Addison-Wesley Longman)	Writing in Math Class: A Resource for Grades 2–8	$25.83

NEW

Data Explorer (Version 1.1 for Macintosh and Windows)

Depth Resource

Physical Characteristics:
One CD-ROM and a Teacher's Guide - 204 pages - all in a 3-ring binder

Annotation:
This resource is a very useful tool for collecting and representing data in graphs. Students create and administer surveys, either on paper or on the computer, input the data, if collected on paper, and then manipulate it to create graphic representations. An electronic notebook allows students to complete an analysis on-screen. The program supports line plots, with icon choices, bar graphs, histograms, broken line graphs, box and whisker plots, stem and leaf plots, scatter plots, Venn diagrams, circle graphs and tables.

Comments:
- The teacher support material includes a reference section that provides explanations of the functions of the program.
- The program often chooses axes that do not start at 0. This can be adjusted in some of the types of graphs.
- The program content extends beyond Grade 6.

System Requirements:
- Macintosh - System 7.0 or higher, 68040 processor or better, 33 MHz, 3.5 MB RAM, 256 colour 640 x 480 monitor
- Windows 3.1 - Windows 3.1 or higher, 386 processor or better, 256 colour 640 x 480 monitor
- Windows 95 - Windows 95 or higher, 486 processor or better (Pentium recommended), 256 colour 640 x 480 monitor

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:
1998

Title:
Data Explorer (Version 1.1 for Macintosh and Windows)

Est. WCP Price(s):
$119.95

BEST COPY AVAILABLE

50 Problem Solving Lessons

Annotation:
This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives.

Teacher Resource

Audience: Teachers

Author(s):
Burns, M

Physical Characteristics:
183 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Addison-Wesley Longman Ltd
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	0941355160	50 Problem Solving Lessons	$20.79

WCP

In the Balance

NEW • In the Balance: Algebra Logic Puzzles: Grades 4–6

NEW • In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):
Kroner, L.

Physical Characteristics:
- In the Balance: Algebra Logic Puzzles Grades 4-6: 78 pages, coilbound
- In the Balance: Algebra Logic Puzzles Grades 7-9: 78 pages, coilbound

Annotation:
Each of these resources contains 25 reproducible logic-based number puzzles ranging from the simple to the very complex. These are extension activities that support a number of the Common Curriculum Framework mathematical processes.

Comments:
- These resources can also be used at the senior high school level in Relations and Functions.
- It would be beneficial to have both the Grades 4–6 booklet and the Grades 7–9 booklet, as it is necessary to introduce the puzzles at a simple stage of complexity—Grades 4–6—before teaching at the more complex—Grades 7–9—level.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓		✓						

Publisher: Creative Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1997	0762205512	• In the Balance: Algebra Logic Puzzles Grades 4–6	$22.05
1997	0762205520	• In the Balance: Algebra Logic Puzzles Grades 7–9	$22.05

NEW

WCP

Active Learning Series

Just a Minute: Activities for Spare Moments in Class: Grades 5–8, Ages 10–13

Teacher Resource

Author(s):
Cowan, L.

Physical Characteristics:
Approximately 150 pages, in a 3-ring binder

Annotation:
This resource offers a variety of open-ended mathematics activities based on all strands. It is designed as an active tool to allow students to reflect, review, communicate and solve problems through such things as drama, debate and games. All mathematical processes are addressed. The resource uses language arts activities extensively to help students communicate knowledge and reasoning in mathematics. The mathematics activities can be used for cooperative small-group review purposes, reinforcement, evaluation or for challenge purposes.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166 ; (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1998

Title:
Just a Minute: Activities for Spare Moments in Class: Grades 5–8, Ages 10–13

Est. WCP Price(s):
$34.95

GRADE 5 - LEARNING AND TEACHING RESOURCES

NEW

WCP

Kay Toliver Files 2
- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Distance, Time and Speed: One 15-minute videocassette
- Statistics: One 15-minute videocassette
- Circles: One 15-minute videocassette
- Decimals: One 15-minute videocassette
- Kay Toliver Files 2: Teacher's Guide: 48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos.

Cautions:
- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749; (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Distance, Time and Speed	$125.00
1998		• Statistics	$125.00
1998		• Circles	$125.00
1998		• Decimals	$125.00
1998	079362858X	• Kay Toliver Files 2: Teacher's Guide	No charge with series purchase

NEW

Kay Toliver Files 3
- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Patterns: One 15-minute videocassette
- Length and Area: One 15-minute videocassette
- Volume: One 15-minute videocassette
- The Counting Principle: One 15-minute videocassette
- Kay Toliver Files 3: Teacher's Guide: 48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos.

Cautions:
- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749 ; (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Patterns	$125.00
1998		• Length and Area	$125.00
1998		• Volume	$125.00
1998		• The Counting Principle	$125.00
1998	0793628598	• Kay Toliver Files 3: Teacher's Guide	No charge with series purchase

GRADE 5 - LEARNING AND TEACHING RESOURCES

NEW

WCP

Kay Toliver Files 4
- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Teacher Resource

Physical Characteristics:
- Variables–One 15-minute videocassette
- Ratios–One 15-minute videocassette
- Charts and Graphs–One 15-minute videocassette
- Percents–One 15-minute videocassette
- Kay Toliver Files 4: Teacher's Guide–48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos.

Cautions:
- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749, (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com/

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Variables	$125.00
1998		• Ratios	$125.00
1998		• Charts and Graphs	$125.00
1998		• Percents	$125.00
1998	0793629985	• Kay Toliver Files 4: Teacher's Guide	No charge with series purchase

NEW

Math by All Means

Math by All Means: Area and Perimeter: Grades 5–6

Annotation:
This teacher resource presents strategies for and sample lessons on helping children learn about perimeter, area and the relationships between them. Each lesson consists of an overview, before the lesson preparation, introductory activity, lesson, class or student reflection, and assessments. The activities encourage students to have hands-on experiences and to develop critical thinking skills.

Teacher Resource

Author(s):
Rectanus, C.

Audience: Teachers

Physical Characteristics:
198 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Math Solutions Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1994

ISBN: 0941355187

Title: Math by All Means: Area and Perimeter Grades 5–6

Est. WCP Price(s): $32.27

NEW

WCP

Math On the Go II: Junior
Grades 4-6, Ages 9-11

Annotation:
Math On the Go II is a collection of student activity cards. The cards are colour-coded according to the strands – Number Sense and Numeration, Geometry and Spatial Sense, Patterning and Algebra, Measurement, Data Management and Probability, and Problem Solving. Blackline masters are included. Most of the activities use everyday materials. Every strand also has a materials list.

Teacher Resource

Author(s):
Millar, N.; Moore, N.; Morrow, P.

Audience: Teachers

Physical Characteristics:
Approximately 200 pages, loose, in a plastic case

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Processes(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166; (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1998

Title:
Math On the Go II: Junior: Grades 4-6, Ages 9-11

Est. WCP Price(s):
$59.95

NEW

WCP

Measure for Measure: Using Portfolios in K–8 Mathematics

Teacher Resource

Author(s):
Kuhs, T. M

Physical Characteristics:
118 pages, softcover

Annotation:
This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Heinemann
Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3
Telephone: (800) 263-7824 , (416) 798-0424
Fax: (416) 798-1384
Internet: http://www.irwin-pub.com

Copyright: 1997

ISBN: 0435071351

Title: Measure for Measure: Using Portfolios in K–8 Mathematics

Est. WCP Price(s): $27.80

NEW

WCP

Tenth Planet Explores Math: Geometry Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Annotation:
This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Depth Resource

Physical Characteristics:
One CD-ROM, Teaching Guide—86 pages, coilbound; Quick Reference Card; "At a Glance" card; Technical Guide—30 pages, softcover—all in a 3-ring binder

Comments:
- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students
- The resource provides opportunities for a wide range of student learning needs
- One activity uses American coins

System Requirements:
- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external)
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
							✓		

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright: 1997/1998

ISBN: 188861868X (Teaching Guide)

Title: Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Est. WCP Price(s): $99.95

BEST COPY AVAILABLE

GRADE 5 - LEARNING AND TEACHING RESOURCES

Quest 2000: Exploring Mathematics (Grade 5)
- Student Book
- Teacher's Guide & Journal; Solutions Manual
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- NEW Developing Number Strategies
- NEW Exploration Centres: Activity Cards (Revised Edition)

Breadth and Depth Resource

Author(s):
Wortzman, R. et al

Physical Characteristics:
- Student Book: 288 pages, hardcover
- Teacher's Guide & Journal: 464 pages, coilbound; Solutions Manual: 78 pages, softcover
- Extra Practice and Testing Masters (Student Edition, Teacher's Edition): 178 pages each, softcover
- Teacher Support Package: 107 pages, softcover
- Technology Package: 32 pages, softcover, and two 3.5" program discs
- Problem of the Week: 32 transparencies
- Professional Handbook: 96 pages, softcover
- Developing Number Strategies: Approximately 150 pages, small format, coilbound
- Exploration Centres: Activity Cards (Revised Edition): Approximately 150 pages, loose

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

• *Student Book*
The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practise Your Skills questions for practising mathematical skills independently at home or in class. At the end of each unit are a problem bank, a skill bank and questions for journal writing.

• *Teacher's Guide & Journal*
This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: mathematics workouts with 5-minute activities to help students review concepts from previous units, student diversity pages to build a community of learners and provide strategies for students learning English, and technology centres, some of which use commercial software.

•*Solutions Manual*
This manual provides answers to questions presented in the Student Book. In instances where many solutions are possible, sample responses are provided.

• *Extra Practice and Testing Masters (Student Edition, Teacher's Edition with Answers)*
These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pregrade level content. A record chart and a comprehensive index are provided.

• *Teacher Support Package*
This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.

• *Technology Package*
The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing, spreadsheet, draw, paint and database environments. Exploration centres file discs are included.

• *Problem of the Week*
Transparencies provide an easy way to display each problem of the week. An answer key is included.

• *Professional Handbook (Revised Edition)*
This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change, Student Behavior and Attitudes, The Teacher's Role, Content, Assessment, Student Diversity, The Role of Technology, Communicating with Parents, Quest 2000 Content Grades K-6, and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

• *Developing Number Strategies*
This is a teacher resource designed to develop and enhance mental computational skills. There are 160 estimation and mental mathematics activities organized into sets of five – one for each day of the week. Answers are provided with the exercises. These activities are a stand-alone option and do not correlate directly with material in the student book.

• *Exploration Centres: Activity Cards (Revised Edition)*
This is a set of 83 activity cards that provide a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit. These cards provide further practice and extension activities for the concepts taught in the unit. Activity cards could be used to set up centres.

Comments:
- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the lining up of decimal points for addition.
- Many key ideas are included by implication, as well as by explicit statement. Key ideas are included in the teacher material but are not included in the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's guide.
- Mixed numbers and stem-and-leaf plots are extraneous to Grade 5.

Continued

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Continued

Cautions:
- *Developing Number Strategies*

There are some operations with fractions that are extraneous activities, e.g., 1/10 + 1/10 + 1/10, 1/2 x 6___ 20

System Requirements:
- Macintosh: System 6.0.5 or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher
- Windows 3.1: 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher
- Windows 95: 486/50 MHz (Pentium recommended), 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓				

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Addison-Wesley Publishers Ltd.
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1997	0201552728	• Student Book	$24.35
1997	0201552736 (Set)	• Teacher's Guide & Journal, Solutions Manual	$114.45 (Set)
1997	0201656728 (Set)	• Extra Practice and Testing Masters (Student Edition, Teacher's Edition with Answers)	$45.75 (Set)
1997	0201552744	• Teacher Support Package	$45.75
1997	0201898454	• Technology Package	$49.20
1997	0201696061	• Problem of the Week	$45.75
1997	0201696010	• Professional Handbook (Revised Edition)	$22.85
1999	020147803X	• Developing Number Strategies	$34.95
1998	0201360039	• Exploration Centres: Activity Cards (Revised Edition)	$42.35

NEW

WCP *Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol*

Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 5

Teacher Resource

Author(s):
Hauk, C. M., Quinn, B. A.

Physical Characteristics:
50 pages, coilbound

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This resource provides assistance for teachers in implementing the Common Curriculum Framework. Keyed directly to each illustrative example, it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the mathematical processes—communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization—that are associated with the corresponding specific outcomes. For added convenience, each page of this resource is cross-referenced to the page where the respective illustrative example appears in the Common Curriculum Framework.

Comments:
- This resource must be used directly with the original June 1995 Common Curriculum Framework, and not in connection with any documents derived from the Common Curriculum Framework and produced by individual jurisdictions.

Cautions:
- In a number of places there is scope for valid alternative methods of solving the illustrative examples. Sometimes the authors provide only one solution where more than one solution may be valid. Teachers should be aware of this, and should always remain respectful of valid alternative methods for solving the illustrative examples.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓				

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: C. Marie Hauk, Bryan A. Quinn
Distributor: Math Alive
315 Dechene Road
EDMONTON, AB, CANADA T6M 1W3
Telephone: (780) 487-8841
Fax: (780) 481-9913

Copyright:
1999

Title:
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 5

Est. WCP Price(s):
$9.75

8

GRADE 5 - LEARNING AND TEACHING RESOURCES

NEW

Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):
Ainsworth, L., Christinson, J.

Physical Characteristics:
109 pages, softcover

Annotation:
This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:

- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Addison-Wesley Longman
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1998	1572329211	Student Generated Rubrics: An Assessment Model to Help All Students Succeed	$16.11

NEW

The Super Source
The Super Source: Tangrams

Teacher Resource

Physical Characteristics:
104 pages, softcover

Annotation:
This teacher resource provides a set of activities with tangrams. While the activities are episodic rather than systematic, the resource shows how a number of outcomes in Shape and Space can be supported through the use of this manipulative.

Comments:
- Some of the activities go beyond the Grade 5/Grade 6 learning outcomes, so teachers must select grade-appropriate activities.
- The resource does not include a class set of tangrams.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Cuisenaire Company of America, Inc.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	1574520172	The Super Source: Tangrams	$19.95

NEW

WCP Writing in Math Class: A Resource for Grades 2–8

Annotation:
This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Teacher Resource

Author(s):
Burns, M

Audience: Teachers

Physical Characteristics:
197 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028 ; (416) 447-5101

Fax: (800) 465-0536 ; (416) 443-0948

Internet: http://www.awl.com/canada

Copyright: 1995

ISBN: 0941355136 (Math Solutions Publications)
0201872323 (Addison-Wesley Longman)

Title: Writing in Math Class: A Resource for Grades 2–8

Est. WCP Price(s): $25.83

NEW

WCP

MathMania Series
Cool Math Games: Grades 7–10

Teacher Resource

Author(s):
Gadanidis, G

Physical Characteristics:
Approximately 100 pages, coilbound

Annotation:
This book of card games deals with aspects of fractions, integers and algebraic equations. The games are clearly explained, short, and each addresses a specific outcome. The cards—to be cut out from sheets—are clearly labelled, which makes them easy to use. This resource could be used to help students master concepts in a different way.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓		✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓		✓	✓					

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166 ; (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1997

Title:
Cool Math Games: Grades 7–10

Est. WCP Price(s):
$29.95

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NEW

WCP

Data Explorer (Version 1.1 for Macintosh and Windows)

Depth Resource

Physical Characteristics:
One CD-ROM and a Teacher's Guide - 204 pages - all in a 3-ring binder

Annotation:
This resource is a very useful tool for collecting and representing data in graphs. Students create and administer surveys, either on paper or on the computer, input the data, if collected on paper, and then manipulate it to create graphic representations. An electronic notebook allows students to complete an analysis on-screen. The program supports line plots, with icon choices, bar graphs, histograms, broken line graphs, box and whisker plots, stem and leaf plots, scatter plots, Venn diagrams, circle graphs and tables.

Comments:
- The teacher support material includes a reference section that provides explanations of the functions of the program.
- The program often chooses axes that do not start at 0. This can be adjusted in some of the types of graphs.
- The program content extends beyond Grade 6.

System Requirements:
- Macintosh - System 7.0 or higher, 68040 processor or better, 33 MHz, 3.5 MB RAM, 256 colour 640 x 480 monitor
- Windows 3.1 - Windows 3.1 or higher, 386 processor or better, 256 colour 640 x 480 monitor
- Windows 95 - Windows 95 or higher, 486 processor or better (Pentium recommended), 256 colour 640 x 480 monitor

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓		✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
								✓	

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:
1998

Title:
Data Explorer (Version 1.1 for Macintosh and Windows)

Est. WCP Price(s):
$119.95

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GRADE 6 - LEARNING AND TEACHING RESOURCES

NEW

WCP

50 Problem Solving Lessons

Annotation:
This is a compilation of open-ended mathematics problem-solving activities, for Grade 1 to Grade 6, that promote critical thinking and use manipulatives.

Teacher Resource

Audience: Teachers

Author(s):
Burns, M.

Physical Characteristics:
183 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	✓

Publisher: Addison-Wesley Longman Ltd.
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1996	0941355160	50 Problem Solving Lessons	$20.79

GRADE 6 - LEARNING AND TEACHING RESOURCES

WCP

In the Balance

NEW • In the Balance: Algebra Logic Puzzles: Grades 4–6

NEW • In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):
Kroner, L.

Physical Characteristics:
- In the Balance: Algebra Logic Puzzles Grades 4-6 78 pages, coilbound
- In the Balance: Algebra Logic Puzzles Grades 7-9 78 pages, coilbound

Annotation:
Each of these resources contains 25 reproducible logic-based number puzzles ranging from the simple to the very complex. These are extension activities that support a number of the Common Curriculum Framework mathematical processes.

Comments:
- These resources can also be used at the senior high school level in Relations and Functions.
- It would be beneficial to have both the Grades 4–6 booklet and the Grades 7–9 booklet, as it is necessary to introduce the puzzles at a simple stage of complexity—Grades 4–6—before teaching at the more complex—Grades 7–9—level.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓		✓						

Publisher: Creative Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (41) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1997	0762205512	• In the Balance: Algebra Logic Puzzles Grades 4–6	$22.05
1997	0762205520	• In the Balance: Algebra Logic Puzzles Grades 7–9	$22.05

NEW

WCP

Active Learning Series

Just a Minute: Activities for Spare Moments in Class: Grade: 5–8, Ages 10–13

Teacher Resource

Author(s):
Cowan, L.

Physical Characteristics:
Approximately 150 pages, in a 3-ring binder

Annotation:
This resource offers a variety of open-ended mathematics activities based on all strands. It is designed as an active tool to allow students to reflect, review, communicate and solve problems through such things as drama, debate and games. All mathematical processes are addressed. The resource uses language arts activities extensively to help students communicate knowledge and reasoning in mathematics. The mathematics activities can be used for cooperative small-group review purposes, reinforcement, evaluation or for challenge purposes.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166 ; (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1998

Title:
Just a Minute: Activities for Spare Moments in Class: Grades 5–8, Ages 10–13

Est. WCP Price(s):
$34.95

NEW

Kay Toliver Files 2
- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Teacher Resource

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos.

Cautions:
- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Physical Characteristics:
- Distance, Time and Speed: One 15-minute videocassette
- Statistics: One 15-minute videocassette
- Circles: One 15-minute videocassette
- Decimals: One 15-minute videocassette
- Kay Toliver Files 2: Teacher's Guide: 48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749; (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Distance, Time and Speed	$125.00
1998		• Statistics	$125.00
1998		• Circles	$125.00
1998		• Decimals	$125.00
1998	[illegible]	• Kay Toliver Files 2: Teacher's Guide	No charge with series purchase

NEW

Kay Toliver Files 3
- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Patterns: One 15-minute videocassette
- Length and Area: One 15-minute videocassette
- Volume: One 15-minute videocassette
- The Counting Principle: One 15-minute videocassette
- Kay Toliver Files 3: Teacher's Guide: 48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos.

Cautions:
- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749, (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Patterns	$125.00
1998		• Length and Area	$125.00
1998		• Volume	$125.00
1998		• The Counting Principle	$125.00
1998	0793628598	• Kay Toliver Files 3: Teacher's Guide	No charge with series purchase

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NEW

Kay Toliver Files 4
- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Teacher Resource

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos

Cautions:
- This resource package is an American product, the classroom setting is in Harlem

Audience: Teachers

Physical Characteristics:
- Variables: One 15-minute videocassette
- Ratios: One 15-minute videocassette
- Charts and Graphs: One 15-minute videocassette
- Percents: One 15-minute videocassette
- Kay Toliver Files 4: Teacher's Guide: 48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749, (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Variables	$125.00
1998		• Ratios	$125.00
1998		• Charts and Graphs	$125.00
1998		• Percents	$125.00
1998	0793629985	• Kay Toliver Files 4: Teacher's Guide	No charge with series purchase

NEW

Math by All Means

Math by All Means: Area and Perimeter: Grades 5–6

Annotation:
This teacher resource presents strategies for and sample lessons on helping children learn about perimeter, area and the relationships between them. Each lesson consists of an overview, before the lesson preparation, introductory activity, lesson, class or student reflection, and assessments. The activities encourage students to have hands-on experiences and to develop critical thinking skills.

Teacher Resource

Audience: Teachers

Author(s):
Rectanus, C.

Physical Characteristics:
198 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓				

Publisher: Math Solutions Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1994	0941355187	Math by All Means: Area and Perimeter Grades 5–6	$32.27

NEW

WCP

Math On the Go II: Junior: Grades 4–6, Ages 9–11

Teacher Resource

Author(s):
Millar, N., Moore, N., Morrow, P.

Physical Characteristics:
Approximately 200 pages, loose, in a plastic case

Annotation:
Math On the Go II is a collection of student activity cards. The cards are colour-coded according to the strands – Number Sense and Numeration, Geometry and Spatial Sense, Patterning and Algebra, Measurement, Data Management and Probability, and Problem Solving. Blackline masters are included. Most of the activities use everyday materials. Every strand also has a materials list.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166, (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1998

Title:
Math On the Go II: Junior: Grades 4–6, Ages 9–11

Est. WCP Price(s):
$59.95

NEW

WCP

Measure for Measure: Using Portfolios in K–8 Mathematics

Teacher Resource

Author(s):
Kuhs, T. M.

Physical Characteristics:
118 pages, softcover

Annotation:
This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Heinemann
Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3
Telephone: (800) 263-7824, (416) 798-0424
Fax: (416) 798-1384
Internet: http://www.irwin-pub.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997	0435071351	Measure for Measure: Using Portfolios in K–8 Mathematics	$27.80

NEW

WCP

Tenth Planet Explores Math: Geometry
Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Depth Resource

Physical Characteristics:
One CD-ROM, Teaching Guide—86 pages, coilbound, Quick Reference Card, "At a Glance" card, Technical Guide—30 pages, softcover—all in a 3-ring binder

Annotation:
This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Comments:
- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:
- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external).
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations				Shape and Space		Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
							✓		

Publisher:	Sunburst Communications	**Copyright:**	**ISBN:**	**Title:**	**Est. WCP Price(s):**
Distributor:	Gage Educational Publishing Co 164 Commander Boulevard SCARBOROUGH, ON, CANADA M1S 3C7	1997 1998	188861868X (Teaching Guide)	Mirror Symmetry (Version 1.0 for Macintosh and Windows)	$99.95
Telephone:	(800) 667-1115, (416) 293-8464				
Fax:	(416) 293-9009				
Internet:	http://www.gagelearning.com				

WCP

Quest 2000: Exploring Mathematics (Grade 6)
- Student Book
- Teacher's Guide & Journal; Solutions Manual
- Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)
- Teacher Support Package
- Technology Package
- Problem of the Week
- Professional Handbook (Revised Edition)
- NEW Developing Number Strategies
- NEW Exploration Centres: Activity Cards (Revised Edition)

Breadth and Depth Resource

Author(s):
Wortzman, R. et al

Physical Characteristics:
- Student Book 297 pages, hardcover
- Teacher's Guide & Journal 448 pages, coilbound, Solutions Manual 88 pages, softcover
- Extra Practice and Testing Masters (Student Edition, Teacher's Edition) 180 pages each, softcover
- Teacher Support Package 101 pages, softcover
- Technology Package 33 pages, softcover, and two 3.5" program discs
- Problem of the Week 32 transparencies
- Professional Handbook 96 pages, softcover
- Developing Number Strategies Approximately 150 pages, small format, coilbound
- Exploration Centres: Activity Cards (Revised Edition) Approximately 150 pages, loose

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This program stimulates students to use mathematics to solve problems, to communicate their mathematical thinking and to build a lifelong appreciation of and ability to use mathematics in everyday life. This program focuses on engaging students in meaningful activities to build a community of learners, connecting mathematical experiences with other subjects and to the real world, encouraging communication through questioning and reflection about mathematical ideas, and involving families. Assessment is linked to instruction. This multicomponent resource presents eleven units, built around key mathematical ideas, with a chart outlining essential understandings, benchmarks and pacing that summarizes the concepts taught at each grade level. Technology suggestions are included.

- *Student Book*

The student book supports student activity, but does not define it, and is not intended to be a traditional text. The book may illustrate the unit question, present data to be used in completing the activity, explain a game, clarify vocabulary visually or suggest a possible recording format. The student book provides On Your Own Problems for students to solve and Practice Your Skills questions for practising mathematical skills independently at home or in class. At the end of each unit are a problem bank, skill bank and questions for journal writing.

- *Teacher's Guide & Journal*

This coilbound book presents an overview of the content, outcomes, instructional goals and assessment tools for each unit. Clear directions are provided for setting up exploration centres, teaching core activities and assessing ongoing performance. Classroom management ideas are included, and journal notes facilitate observations and planning. Special features of each unit include: mathematics workouts with 5-minute activities to help students review concepts from previous units; student diversity pages to build a community of learners and provide strategies for students learning English; and exploration centres, some of which use commercial software.

- *Solutions Manual*

This manual provides answers to questions presented in the Student Book. In instances where many solutions are possible, sample responses are provided.

- *Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)*

These blackline masters provide students with opportunities to practise concepts and skills explored in the program. Practice pages for each unit, and test pages for the end of each unit, are included. A skills bank section allows for systematic practice of grade level and pregrade level content. A record chart and a comprehensive index are provided.

- *Teacher Support Package*

This set of activity masters, assessment masters and family masters may be used throughout the year. The activity masters include generic masters, such as grid paper, number cubes, dot paper, spinners and graphing mats, and a variety of masters specific to individual activities. The assessment masters provide tools to manage assessment activities, such as ongoing observation and evaluation records, end-of-unit group and individual performance assessments, and portfolio maintenance. The family masters include program and unit introduction letters (also translated into French) and blank stationery.

- *Technology Package*

The technology activities were created for ClarisWorks and Microsoft Works applications programs, including word processing, spreadsheet, draw, paint and database environments. Exploration centres file discs are included.

- *Problem of the Week*

Transparencies provide an easy way to display each problem of the week. An answer key is included.

- *Professional Handbook (Revised Edition)*

This general resource relates to the philosophy of mathematics teaching and is intended to assist teachers in providing mathematics instruction that begins with students, and then engages, challenges and supports them through the process of becoming mathematically competent. It is divided into sections on The Need for Change, Student Behavior and Attitudes, The Teacher's Role, Content, Assessment, Student Diversity, The Role of Technology, Communicating with Parents, Quest 2000 Content Grades K-6, and a Glossary. A Question and Answer format is used. Although reference to Quest 2000 materials is made, the handbook also has general applicability.

- *Developing Number Strategies*

This is a teacher resource designed to develop and enhance mental computational skills. There are 160 estimation and mental mathematics activities organized into sets of five – one for each day of the week. Answers are provided with the exercises. These activities are a stand-alone option and do not correlate directly with material in the student book.

- *Exploration Centres: Activity Cards (Revised Edition)*

This is a set of 76 activity cards that provide a ready-made version of the Exploration Centres described in the teacher's guide and journal at the beginning of each unit. These cards provide further practice and extension activities for the concepts taught in the unit. Activity cards could be used to set up centres.

Comments:
- Students are expected to construct their own methods of estimation and computation. They have to explain and discuss their methods, with the teacher acting as a facilitator. This even applies in cases where there have been conventional methods used, such as the lining up of decimal points for addition.
- Many key ideas are included by implication, as well as by explicit statement. Key ideas are included in the teacher materials and the student book. Vocabulary development is confined to the teacher materials.
- A glossary is included in the professional handbook, not the teacher's guide.

Continued

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Continued

Cautions:
- The outcomes related to geometrical designs, symmetry and motion geometry are not addressed

System Requirements:
- Macintosh System 6.0.5 or higher, 4 MB RAM, mouse, either ClarisWorks v2.0 or higher, or Microsoft Works v3.0 or higher
- Windows 3.1: 386/33 MHz, 4 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher
- Windows 95: 485/50 MHz (Pentium recommended), 8 MB RAM, mouse, either ClarisWorks v1.0 or higher, or Microsoft Works v3.0 or higher

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓		✓	✓

Publisher: Addison-Wesley Publishers Ltd
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028 ; (416) 447-5101
Fax: (800) 465-0536 ; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1997	0201552752	• Student Book	$24.35
1997	0201552760 (Set)	• Teacher's Guide & Journal; Solutions Manual	$114.45 (Set)
1997	0201656736 (Set)	• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)	$45.75 (Set)
1997	0201552779	• Teacher Support Package	$45.75
1997	0201898462	• Technology Package	$49.20
1997	020169607X	• Problem of the Week	$45.75
1997	0201696010	• Professional Handbook (Revised Edition)	$22.85
1999	0201478048	• Developing Number Strategies	$34.95
1998	0201360047	• Exploration Centres: Activity Cards (Revised Edition)	$42.35

GRADE 6 - LEARNING AND TEACHING RESOURCES

NEW

Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol

Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 6

Teacher Resource

Author(s):
Hauk, C. M.; Quinn, B. A.

Physical Characteristics:
50 pages, coilbound

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓			

Annotation:
This resource provides assistance for teachers in implementing the Common Curriculum Framework. Keyed directly to each illustrative example, it provides teachers with solutions, including diagrams, tables, interpretations and suggestions for concept development. This resource highlights the mathematical processes – communication, connections, estimation and mental mathematics, problem solving, reasoning, technology, and visualization – that are associated with the corresponding specific outcomes. For added convenience, each page of this resource is cross-referenced to the page where the respective illustrative example appears in the Common Curriculum Framework.

Comments:
- This resource must be used directly with the original June 1995 Common Curriculum Framework, and not in connection with any documents derived from the Common Curriculum Framework and produced by individual jurisdictions.

Cautions:
- In a number of places there is scope for valid alternative methods of solving the illustrative examples. Sometimes the authors provide only one solution where more than one solution may be valid. Teachers should be aware of this, and should always remain respectful of valid alternative methods for solving the illustrative examples.

Audience: Teachers

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓	✓	✓	✓

Publisher: C. Marie Hauk; Bryan A. Quinn
Distributor: Math Alive
315 Dechene Road
EDMONTON, AB, CANADA T6M 1W3
Telephone: (780) 487-5841
Fax: (780) 481-9913

Copyright:
1999

Title:
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 6

Est. WCP Price(s):
$9.75

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NEW

Assessment Bookshelf Series

Student Generated Rubrics: An Assessment Model to Help All Students Succeed

Teacher Resource

Author(s):
Ainsworth, L., Christinson, J.

Physical Characteristics:
109 pages, softcover

Annotation:
This professional resource promotes the use of student input for evaluating performance tasks. The resource shows how students can use generated rubrics for guidance as they complete their projects. Sample student work is provided.

Comments:

- This is a teacher resource that could be used across curriculum areas.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Addison-Wesley Longman
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1998	1572329211	Student Generated Rubrics: An Assessment Model to Help All Students Succeed	$16.11

NEW

WCP

The Super Source

The Super Source: Tangrams

Teacher Resource

Physical Characteristics:
104 pages, softcover

Annotation:
This teacher resource provides a set of activities with tangrams. While the activities are episodic rather than systematic, the resource shows how a number of outcomes in Shape and Space can be supported through the use of this manipulative.

Comments:

- Some of the activities go beyond the Grade 5/Grade 6 learning outcomes, so teachers must select grade-appropriate activities.
- The resource does not include a class set of tangrams.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓			

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Copyright:	**ISBN:**	**Title:**	**Est. WCP Price(s):**
1996	1574520172	The Super Source: Tangrams	$19.95

Publisher: Cuisenaire Company of America, Inc.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Writing in Math Class: A Resource for Grades 2–8

Annotation:
This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Teacher Resource

Audience: Teachers

Author(s):
Burns, M

Physical Characteristics:
197 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Publisher: Math Solutions Publications

Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8

Telephone: (800) 387-8028; (416) 447-5101

Fax: (800) 465-0536; (416) 443-0948

Internet: http://www.awl.com/canada

Copyright: 1995

ISBN: 0941355136 (Math Solutions Publications) 0201872323 (Addison-Wesley Longman)

Title: Writing in Math Class: A Resource for Grades 2–8

Est. WCP Price(s): $25.83

NEW

WCP

MathMania Series

Cool Math Games: Grades 7–10

Annotation:
This book of card games deals with aspects of fractions, integers and algebraic equations. The games are clearly explained, short, and each addresses a specific outcome. The cards – to be cut out from sheets – are clearly labelled, which makes them easy to use. This resource could be used to help students master concepts in a different way.

Teacher Resource

Audience: Teachers

Author(s):
Gadanidis, G

Physical Characteristics:
Approximately 100 pages, coilbound

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓		✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓		✓	✓					

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON CANADA L4N 9A3
Telephone: (800) 563-1166 ; (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1997

Title:
Cool Math Games: Grades 7–10

Est. WCP Price(s):
$29.95

NEW

Gage Mathematics Assessment (Grade 7)
Gage Mathematics Assessment Activities 7A (Grade 7)

Teacher Resource

Author(s):
Flewelling, G., Lemenchick, C.

Physical Characteristics:
20 pages, paperbound

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This collection of activities has been extracted from *Gage Mathematics Assessment (Grade 7): Teacher's Resource Book*. Included are higher-level thinking, integrative problems for teachers to use in assessment. Evaluation criteria and scoring rubrics are not provided.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓		✓	

Publisher: Gage Educational Publishing Co
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115, (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997	0771533683	Gage Mathematics Assessment Activities 7A (Grade 7)	$3.95

NEW

WCP

Hands-on Math Projects with Real-Life Applications: Ready-to-Use Lessons and Materials for Grades 6–12

Annotation:
This resource includes a collection of 60 projects, with advice for teachers regarding strategies and assessment. Connections with other subjects is a major focus. Each project provides opportunities for learners to demonstrate their skills and knowledge through various means of communication.

Teacher Resource

Comments:
- There is some American content, e.g., statistical facts (page 43), and imperial measures (page 81).

Author(s):
Muschla, G. R.; Muschla, J. A.

Audience: Teachers

Physical Characteristics:
365 pages, coilbound

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	

Publisher: The Center For Applied Research Education, (CARE)
Distributor: Prentice Hall Canada Inc
1870 Birchmount Road
SCARBOROUGH, ON, CANADA M1P 2J7
Telephone: (800) 361-6128, (416) 293-3621
Fax: (416) 299-2529
Internet: http://www.phcanada.com

Copyright: 1996

ISBN: 0876283849

Title:
Hands-on Math Projects with Real-Life Applications: Ready-to-Use Lessons and Materials for Grades 6–12

Est. WCP Price(s):
$32.54

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In the Balance

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):
Kroner, L.

Physical Characteristics:
- In the Balance: Algebra Logic Puzzles Grades 4-6: 78 pages, coilbound
- In the Balance: Algebra Logic Puzzles Grades 7-9: 78 pages, coilbound

Annotation:
Each of these resources contains 25 reproducible logic-based number puzzles ranging from the simple to the very complex. These are extension activities that support a number of the Common Curriculum Framework mathematical processes.

Comments:
- These resources can also be used at the senior high school level in Relations and Functions.
- It would be beneficial to have both the Grades 4–6 booklet and the Grades 7–9 booklet, as it is necessary to introduce the puzzles at a simple stage of complexity—Grades 4–6—before teaching at the more complex—Grades 7–9—level.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓		✓						

Publisher: Creative Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028; (416) 447-5101
Fax: (800) 465-0536; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1997	0762205512	• In the Balance: Algebra Logic Puzzles Grades 4–6	$22.05
1997	0762205520	• In the Balance: Algebra Logic Puzzles Grades 7–9	$22.05

NEW
WCP
Active Learning Series
Just a Minute: Activities for Spare Moments in Class: Grades 5–8. Ages 10–13

Annotation:
This resource offers a variety of open-ended mathematics activities based on all strands. It is designed as an active tool to allow students to reflect, review, communicate and solve problems through such things as drama, debate and games. All mathematical processes are addressed. The resource uses language arts activities extensively to help students communicate knowledge and reasoning in mathematics. The mathematics activities can be used for cooperative small-group review purposes, reinforcement, evaluation or for challenge purposes.

Teacher Resource

Audience: Teachers

Author(s):
Cowan, I.

Physical Characteristics:
Approximately 150 pages, in a 3-ring binder

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd.
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166, (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1998

Title:
Just a Minute: Activities for Spare Moments in Class: Grades 5–8, Ages 10–13

Est. WCP Price(s):
$34.95

BEST COPY AVAILABLE

NEW

WCP

Kay Toliver Files 2
- Distance, Time and Speed
- Statistics
- Circles
- Decimals
- Kay Toliver Files 2: Teacher's Guide

Teacher Resource

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos.

Cautions:
- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Physical Characteristics:

- Distance, Time and Speed–One 15-minute videocassette
- Statistics–One 15-minute videocassette
- Circles–One 15-minute videocassette
- Decimals–One 15-minute videocassette
- Kay Toliver Files 2: Teacher's Guide–48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749, (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Distance, Time and Speed	$125.00
1998		• Statistics	$125.00
1998		• Circles	$125.00
1998		• Decimals	$125.00
1998	079362858X	• Kay Toliver Files 2: Teacher's Guide	No charge with series purchase

NEW

Kay Toliver Files 3
- Patterns
- Length and Area
- Volume
- The Counting Principle
- Kay Toliver Files 3: Teacher's Guide

Teacher Resource

Physical Characteristics:

- Patterns-One 15-minute videocassette
- Length and Area-One 15-minute videocassette
- Volume-One 15-minute videocassette
- The Counting Principle-One 15-minute videocassette
- Kay Toliver Files 3: Teacher's Guide-48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos.

Cautions:
- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749, (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Patterns	$125.00
1998		• Length and Area	$125.00
1998		• Volume	$125.00
1998		• The Counting Principle	$125.00
1998	0793628598	• Kay Toliver Files 3: Teacher's Guide	No charge with series purchase

BEST COPY AVAILABLE

NEW

WCP

Kay Toliver Files 4
- Variables
- Ratios
- Charts and Graphs
- Percents
- Kay Toliver Files 4: Teacher's Guide

Teacher Resource

Physical Characteristics:
- Variables–One 15-minute videocassette
- Ratios–One 15-minute videocassette
- Charts and Graphs–One 15-minute videocassette
- Percents–One 15-minute videocassette
- Kay Toliver Files 4: Teacher's Guide–48 pages, softcover

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Closed captioned

Annotation:
These four 15-minute videos are appropriate for teacher education and inservice, workshops, or parent viewing. The materials are designed to help teachers plan and deliver effective mathematics lessons. The videos, while about different topics, tend to emphasize the same teaching strategies. They emphasize the development of mathematical processes consistent with the WCP philosophy.

Comments:
- Imperial measures are used in some videos.

Cautions:
- This resource package is an American product; the classroom setting is in Harlem.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓		

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: PBS Video
Distributor: Visual Education Centre
41 Horner Avenue, Unit 3
ETOBICOKE, ON, CANADA M8Z 4X4
Telephone: (800) 668-0749, (416) 252-5907
Fax: (416) 251-3720
Internet: http://www.visualed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1998		• Variables	$125.00
1998		• Ratios	$125.00
1998		• Charts and Graphs	$125.00
1998		• Percents	$125.00
1998	0793629985	• Kay Toliver Files 4: Teacher's Guide	No charge with series purchase

NEW

WCP

Polydron

Mathematics with Polydron

Teacher Resource

Author(s):
Ansell, B., Baker, L., Harris, I.

Physical Characteristics:
Approximately 100 pages, coilbound

Annotation:
This resource contains 36 activities involving the use of polydrons. Each activity consists of a teacher sheet and a student activity sheet that can be photocopied. These activities can be used to meet student outcomes in Shape and Space (3-D Objects and 2-D Shapes) for Grade 7 to Grade 9.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓			

Publisher: Cuisenaire Company of America, Inc.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600, (905) 841-0600
Fax: (800) 668-0602, (905) 727-6265
Internet: http://www.spectrumed.com

Copyright: 1994
ISBN: 0952381508

Title:
Mathematics with Polydron

Est. WCP Price(s):
$49.95

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Measure for Measure: Using Portfolios in K–8 Mathematics

Teacher Resource

Author(s):
Kuhs, T. M.

Physical Characteristics:
118 pages, softcover

Annotation:
This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Heinemann
Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3
Telephone: (800) 263-7824, (416) 798-0424
Fax: (416) 798-1384
Internet: http://www.irwin-pub.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997	0435071351	Measure for Measure: Using Portfolios in K–8 Mathematics	$27.80

GRADE 7 - LEARNING AND TEACHING RESOURCES

NEW

WCP

Tenth Planet Explores Math Geometry Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Annotation:
This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Depth Resource

Physical Characteristics:
One CD-ROM, Teaching Guide—86 pages, coilbound, Quick Reference Card, "At a Glance" card, Technical Guide—30 pages, softcover—all in a 3-ring binder

Comments:
- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:
- Macintosh—System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external)
- Windows 3.1—486 DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse
- Windows 95—486 DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse

Audience: General ESL Gifted LD ID (Mild)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		**Patterns and Relations**			**Shape and Space**			**Statistics and Probability**	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
							✓		

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997 1998	188861868X (Teaching Guide)	Mirror Symmetry (Version 1.0 for Macintosh and Windows)	$99.95

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NEW

WCP Using the Explorer Plus Calculator

Annotation:
This resource is specific to the Texas Instruments Explorer Plus calculator. This book was written as a facilitator's manual to conduct workshops on how to use the Explorer Plus calculator in the classroom. It contains 64 pages intended to be made into transparencies for use in the presentation of workshops. It also contains 26 sample lessons covering the use of this calculator in the Number, Shape and Space, and Statistics and Probability strands.

Teacher Resource

Audience: Teachers

Author(s):
Bitter, G. G.; Mikesell, J. L.

Physical Characteristics:
291 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓				✓				✓

Publisher: Dale Seymour Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1998	1572328533	Using the Explorer Plus Calculator	$21.24

NEW

WCP Writing in Math Class: A Resource for Grades 2–8

Annotation:
This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Teacher Resource

Audience: Teachers

Author(s):
Burns, M.

Physical Characteristics:
197 pages, softcover

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Publisher: Math Solutions Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028 ; (416) 447-5101
Fax: (800) 465-0536 ; (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1995	0941355136 (Math Solutions Publications) 0201872323 (Addison-Wesley Longman)	Writing in Math Class: A Resource for Grades 2–8	$25.83

Acces: The Teacher's Database

NEW • Acces: The Teacher's Database (Macintosh Version 3.33)
NEW • *Acces: The Teacher's Database* (DOS/Windows Version 3.32)
NEW • Canadian Math Database (Grades 8-10) (Catalog)

Teacher Resource

Physical Characteristics:
- Acces: The Teacher's Database (Macintosh Version 3.33)–One 3.5" Macintosh disc. Support Materials (Typesetting Guide—100 pages, coilbound, Sample Database—23 pages, paperbound, 'Extra' Database—15 pages, paperbound, Reference Manual—114 pages, coilbound)
- Acces: The Teacher's Database (DOS/Windows Version 3.32)–Three 3.5" DOS/Windows discs. Support Materials (Typesetting Guide—100 pages, coilbound, Sample Database—23 pages, paperbound, 'Extra' Database—15 pages, paperbound, Reference Manual—114 pages, coilbound)
- Canadian Math Database (Grades 8-10) (Catalog)–416 pages, 3-ring binder, one 3.5" disc (Macintosh Version 1.0D) and one 3.5" disc (DOS/Windows Version 1.0D)

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This resource package is a publishing system that allows teachers to draw from a collection of thousands of items arranged in topics. Most questions are of multiple-choice format, but these can be recast in open-ended format by removing the distractors. There is a preponderance of procedural items, but there are enough conceptual and problem-solving examples to allow the teacher to build an assessment consistent with a more *conceptual blueprint*. The technology assumed is that of the scientific calculator rather than the *graphing* calculator.

Comments:
- A teacher who is experienced in entering mathematical equations into a word processing program will be able to use this resource package most effectively.

Cautions:
- The Windows setup program is not yet released; the DOS/Windows Version 3.32 must be loaded under DOS, even in Windows 3.1 and Windows 95 environments.
- Windows 3.1 installations require 32-bit extensions before they run.

System Requirements:
- Macintosh: System 7.0 or higher, 68030 processor (68040 or PowerMac recommended), 4 MB RAM (6 MB recommended)
- Windows: 486/50 MHz (Pentium recommended), disc cache set to at least 512 KB

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓	✓		✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓			

Publisher: EducAide Software
Distributor: EducAide Software
3065 Richmond Parkway, Suite 102
RICHMOND, CA, USA 94806
Telephone: (800) 669-9405 , (510) 222-0600
Fax: (510) 222-0165
Internet: http://www.educaide.com

Copyright:	Component Titles:	Est. WCP Price(s):
1997	• Acces: The Teacher's Database (Macintosh Version 3.33)	$495.00 (US)
1997	• Acces: The Teacher's Database (DOS/Windows Version 3.32)	$595.00 (US)
1998	• Canadian Math Database (Grades 8-10) (Catalog)	$225.00 (US)

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NEW

MathMania Series
Cool Math Games: Grades 7–10

Teacher Resource

Author(s):
Gadanidis, G.

Physical Characteristics:
Approximately 100 pages, coilbound

Annotation:
This book of card games deals with aspects of fractions, integers and algebraic equations. The games are clearly explained, short, and each addresses a specific outcome. The cards—to be cut out from sheets—are clearly labelled, which makes them easy to use. This resource could be used to help students master concepts in a different way.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
						✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓		✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓		✓	✓					

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166, (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1997

Title:
Cool Math Games: Grades 7–10

Est. WCP Price(s):
$29.95

NEW

WCP

Gage Mathematics Assessment (Grade 8)
Gage Mathematics Assessment Activities 8A (Grade 8)

Teacher Resource

Author(s):
Flewelling, G.; Lemenchick, C.

Physical Characteristics:
26 pages, paperbound

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This collection of activities has been extracted from *Gage Mathematics Assessment (Grade 8): Teacher's Resource Book*. Included are higher-level thinking, integrative problems for teachers to use in assessment. Evaluation criteria and scoring rubrics are not provided.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓		✓	

Publisher: Gage Educational Publishing Co
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115, (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997	0771533691	Gage Mathematics Assessment Activities 8A (Grade 8)	$3.95

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WCP

The Geometer's Sketchpad

- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

Depth Resource

Physical Characteristics:

- Macintosh Version: Three 3.5" discs, one binder with User Guide and Reference Manual, 242 pages, softcover, Teaching Notes, 78 pages, Macintosh Quick Reference
- Windows Version: Two 3.5" discs, one binder with User Guide and Reference Manual, 240 pages, softcover, Teaching Notes, 78 pages, Windows Quick Reference, one videocassette

NEW

Annotation:

This resource consists of discs, a user guide and reference manual, teaching notes and sample activities, a quick reference, and an introductory video. The resource models geometry in two linked views, sketches and scripts. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 9. The user guide and reference manual provide instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstration and construction activities, on a wide range of geometry topics, are included.

Comments:

- This resource can have greater applications as the user becomes more familiar with the program.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

System Requirements:

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A videocassette supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The videocassette supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The videocassette supports both Macintosh and Windows versions.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Spectrum Educational Supplies Ltd.
Distributor: Spectrum Educational Supplies Ltd.
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600; (905) 841-0600
Fax: (800) 668-0602; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1995	1559530987	• The Geometer's Sketchpad (Macintosh Version 3)	$289.95
1995	1559530995	• The Geometer's Sketchpad (Windows Version 3.03)	$289.95

GRADE 8 - LEARNING AND TEACHING RESOURCES

NEW

Hands-on Math Projects with Real-Life Applications: Ready-to-Use Lessons and Materials for Grades 6–12

Teacher Resource

Author(s):
Muschla, G. R., Muschla, J. A.

Physical Characteristics:
365 pages, coilbound

Annotation:
This resource includes a collection of 60 projects, with advice for teachers regarding strategies and assessment. Connections with other subjects is a major focus. Each project provides opportunities for learners to demonstrate their skills and knowledge through various means of communication.

Comments:

- There is some American content, e.g., statistical facts (page 43), and imperial measures (page 81).

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	

Publisher: The Center For Applied Research Education, (CARE)
Distributor: Prentice Hall Canada Inc
1870 Birchmount Road
SCARBOROUGH, ON, CANADA M1P 2J7
Telephone: (800) 361-6128, (416) 293-3621
Fax: (416) 299-2529
Internet: http://www.phcanada.com

Copyright: 1996

ISBN: 0876283849

Title: Hands-on Math Projects with Real-Life Applications: Ready-to-Use Lessons and Materials for Grades 6–12

Est. WCP Price(s): $32.54

In the Balance

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):
Kroner, L.

Physical Characteristics:
- In the Balance: Algebra Logic Puzzles: Grades 4–6, 78 pages, coilbound
- In the Balance: Algebra Logic Puzzles: Grades 7–9, 78 pages, coilbound

Annotation:
Each of these resources contains 25 reproducible logic-based number puzzles ranging from the simple to the very complex. These are extension activities that support a number of the Common Curriculum Framework mathematical processes.

Comments:
- These resources can also be used at the senior high school level in Relations and Functions.
- It would be beneficial to have both the Grades 4–6 booklet and the Grades 7–9 booklet, as it is necessary to introduce the puzzles at a simple stage of complexity—Grades 4–6—before teaching at the more complex—Grades 7–9—level.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓		✓						

Publisher: Creative Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1997	0762205512	• In the Balance: Algebra Logic Puzzles: Grades 4–6	$22.05
1997	0762205520	• In the Balance: Algebra Logic Puzzles: Grades 7–9	$22.05

NEW

WCP

Active Learning Series
Just a Minute: Activities for Spare Moments in Class: Grades 5–8, Ages 10–13

Teacher Resource

Author(s):
Cowan, L.

Physical Characteristics:
Approximately 150 pages, in a 3-ring binder

Annotation:
This resource offers a variety of open-ended mathematics activities based on all strands. It is designed as an active tool to allow students to reflect, review, communicate and solve problems through such things as drama, debate and games. All mathematical processes are addressed. The resource uses language arts activities extensively to help students communicate knowledge and reasoning in mathematics. The mathematics activities can be used for cooperative small-group review purposes, reinforcement, evaluation or for challenge purposes.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
					✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓		✓	✓	✓	✓	✓

Publisher: Exclusive Educational Products
Distributor: Exclusive Educational Products Ltd
243 Saunders Road
BARRIE, ON, CANADA L4N 9A3
Telephone: (800) 563-1166, (705) 725-1166
Fax: (705) 725-1167
Internet: http://www.exclusiveeducational.ca

Copyright:
1998

Title:
Just a Minute: Activities for Spare Moments in Class: Grades 5–8, Ages 10–13

Est. WCP Price(s):
$34.95

NEW

Mathematics 8 (Distance Learning Package)
- Module 1: Number Connections
- Module 2: Patterns and Relations
- Module 3: Number Applications
- Module 4: Two-Dimensional Geometry
- Module 5: Probability and Statistics
- Module 6: Three-Dimensional Geometry
- Assignment Booklets
- Learning Facilitator's Manual
- Video 1 Compilation: *Math Moves* (includes: Adding and Subtracting Fractions; Multiplying and Dividing Fractions; Equations: Solving with One Step; Equations: Solving with More Than One Step)
- Video 2 Compilation: *Math Moves* (includes: The Percent; Number Theory); *Mathways* (includes: Areas; Volumes)

Breadth and Depth Resource

Physical Characteristics:
- Module 1 Number Connections 207 pages, coilbound
- Module 2 Patterns and Relations 135 pages, coilbound
- Module 3 Number Applications 159 pages, coilbound
- Module 4 Two-Dimensional Geometry 159 pages, coilbound
- Module 5 Probability and Statistics 159 pages, coilbound
- Module 6 Three-Dimensional Geometry 137 pages, coilbound
- Assignment Booklets 6 booklets, 15 20 pages each
- Learning Facilitator's Manual Approximately 100 pages, loose
- Video 1 Compilation 1 2" VHS 4 x 28 50 min
- Video 2 Compilation 1 2" VHS 14 50 min , 28 50 min , 14 56 min , 14 56 min

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:
- Access to Publisher's Disks for Production

Annotation:
This resource package consists of six coilbound modules with accompanying assignment booklets. Two videocassettes on key concepts support the print material. A learning facilitator's manual is also available. The program correlates exactly with all specific outcomes of the Common Curriculum Framework.

Comments:
- This resource package, although intended for distance learning, would be very useful for any classroom teacher

Audience: General

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Continued

Continued

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓

Publisher: Learning Technologies Branch (LTB) - Alberta Education

Distributor: Learning Technologies Branch (LTB) Alberta Learning
Box 4000
BARRHEAD, AB, CANADA T7N 1P4

Telephone: (780) 674-5350

Fax: (780) 674-6561

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1997	0774113200	• Module 1: Number Connections	$16.10
1997	0774113332	• Module 2: Patterns and Relations	$16.10
1997	0774113367	• Module 3: Number Applications	$16.10
1997	0774113529	• Module 4: Two-Dimensional Geometry	$16.10
1997	0774113782	• Module 5: Probability and Statistics	$16.10
1997	0774114045	• Module 6: Three-Dimensional Geometry	$16.10
1997		• Assignment Booklets	$12.00
1997	0774113227	• Learning Facilitator's Manual	$60.00
1992		• Video 1 Compilation: *Math Moves* (includes Adding and Subtracting Fractions; Multiplying and Dividing Fractions; Equations: Solving with One Step; Equations: Solving with More Than One Step)	$38.15
1985-1992		• Video 2 Compilation: *Math Moves* (includes The Percent; Number Theory); *Mathways* (includes: Areas, Volumes)	$38.70

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GRADE 8 - LEARNING AND TEACHING RESOURCES

NEW

WCP

Polydron
Mathematics with Polydron

Annotation:
This resource contains 36 activities involving the use of polydrons. Each activity consists of a teacher sheet and a student activity sheet that can be photocopied. These activities can be used to meet student outcomes in Shape and Space (3-D Objects and 2-D Shapes) for Grade 7 to Grade 9.

Teacher Resource

Author(s):
Ansell, B., Baker, L., Harris, I.

Audience: Teachers

Physical Characteristics:
Approximately 100 pages, coilbound

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓			

Publisher: Cuisenaire Company of America, Inc
Distributor: Spectrum Educational Supplies Ltd
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600, (905) 841-0600
Fax: (800) 668-0602, (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1994	0952381508	Mathematics with Polydron	$49.95

NEW

WCP

Measure for Measure: Using Portfolios in K–8 Mathematics

Teacher Resource

Author(s):
Kuhs, T. M.

Physical Characteristics:
118 pages, softcover

Annotation:
This is a professional resource for teachers who wish to have information about portfolio assessment in mathematics. It describes how teachers can use portfolios and explain portfolio assessment to students and parents. It also provides information on using rubrics for assessing portfolios.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty

Publisher: Heinemann
Distributor: Irwin Publishing
325 Humber College Boulevard
TORONTO, ON, CANADA M9W 7C3
Telephone: (800) 263-7824; (416) 798-0424
Fax: (416) 798-1384
Internet: http://www.irwin-pub.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997	0435071351	Measure for Measure: Using Portfolios in K–8 Mathematics	$27.80

GRADE 8 - LEARNING AND TEACHING RESOURCES

NEW

Tenth Planet Explores Math: Geometry

Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Annotation:
This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication—oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Depth Resource

Physical Characteristics:
One CD-ROM, Teaching Guide—86 pages, coilbound; Quick Reference Card, "At a Glance" card, Technical Guide—30 pages, softcover—all in a 3-ring binder

Comments:
- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:
- Macintosh: System 7.1 or higher, Macintosh LC II or higher (25 MHz 68030 processor or better), 8 MB RAM (5 MB available), 256 colour 13-inch monitor, double speed CD drive, approximately 14 MB free hard disk space, microphone (built-in or external).
- Windows 3.1: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.
- Windows 95: 486/DX2-66 MHz (Pentium recommended), 8 MB installed RAM, SVGA 256 colour compatible video card and monitor, double speed CD drive, approximately 12 MB free hard disk space, microphone (built-in or external), Sound Blaster card or equivalent, mouse.

Audience: .General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
							✓		

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 , (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright: 1997-1998

ISBN: 188861868X (Teaching Guide)

Title: Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Est. WCP Price(s): $99.95

NEW

WCP Using the Explorer Plus Calculator

Annotation:
This resource is specific to the Texas Instruments Explorer Plus calculator. This book was written as a facilitator's manual to conduct workshops on how to use the Explorer Plus calculator in the classroom. It contains 64 pages intended to be made into transparencies for use in the presentation of workshops. It also contains 26 sample lessons covering the use of this calculator in the Number, Shape and Space, and Statistics and Probability strands.

Teacher Resource

Author(s):
Bitter, G. G., Mikesell, J. L.

Physical Characteristics:
291 pages, softcover

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
					✓	

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓				✓				✓

Publisher:	Dale Seymour Publications	**Copyright:**	**ISBN:**	**Title:**	**Est. WCP Price(s):**
Distributor:	Addison-Wesley Longman Pearson Education 26 Prince Andrew Place P.O. Box 580 DON MILLS, ON, CANADA M3C 2T8	1998	1572328533	Using the Explorer Plus Calculator	$21.24

Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

NEW

WCP Writing in Math Class: A Resource for Grades 2–8

Teacher Resource

Author(s):
Burns, M

Physical Characteristics:
197 pages, softcover

Annotation:
This teacher resource presents strategies to assist teachers in making writing a part of their mathematics instruction. It explains why students should write in mathematics class and offers tips and suggestions for teachers. The sample lessons provided encourage students to demonstrate the mathematical processes cited in the Common Curriculum Framework.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Publisher: Math Solutions Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright: 1995

ISBN: 0941355136 (Math Solutions Publications) 0201872323 (Addison-Wesley Longman)

Title: Writing in Math Class: A Resource for Grades 2–8

Est. WCP Price(s): $25.83

Acces: The Teacher's Database

- Acces: The Teacher's Database (Macintosh Version 3.33)
- Acces: The Teacher's Database (DOS/Windows Version 3.32)
- Canadian Math Database (Grades 8-10) (Catalog)

Teacher Resource

Physical Characteristics:

- Acces: The Teacher's Database (Macintosh Version 3.33): One 3.5" Macintosh disc; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- Acces: The Teacher's Database (DOS/Windows Version 3.32): Three 3.5" DOS/Windows discs; Support Materials (Typesetting Guide—100 pages, coilbound; Sample Database—23 pages, paperbound; 'Extra' Database—15 pages, paperbound; Reference Manual—114 pages, coilbound)
- Canadian Math Database (Grades 8-10) (Catalog): 416 pages, 3-ring binder, one 3.5" disc (Macintosh Version 1.0D) and one 3.5" disc (DOS/Windows Version 1.0D)

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Annotation:

This resource package is a publishing system that allows teachers to draw from a collection of thousands of items arranged in topics. Most questions are of multiple-choice format, but these can be recast in open-ended format by removing the distractors. There is a preponderance of procedural items, but there are enough conceptual and problem-solving examples to allow the teacher to build an assessment consistent with a more conceptual blueprint. The technology assumed is that of the scientific calculator rather than the graphing calculator.

Comments:

- A teacher who is experienced in entering mathematical equations into a word processing program will be able to use this resource package most effectively.

Cautions:

- The Windows setup program is not yet released; the DOS/Windows Version 3.32 must be loaded under DOS, even in Windows 3.1 and Windows 95 environments.
- Windows 3.1 installations require 32-bit extensions before they run.

System Requirements:

- Macintosh: System 7.0 or higher, 68030 processor (68040 or PowerMac recommended), 4 MB RAM (6 MB recommended)
- Windows: 486/50 MHz (Pentium recommended), disc cache set to at least 512 KB

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
	✓	✓		✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	✓	✓	✓			

Publisher: EducAide Software

Distributor: EducAide Software
3065 Richmond Parkway, Suite 102
RICHMOND, CA, USA 94806

Telephone: (800) 669-9405 ; (510) 222-0600

Fax: (510) 222-0165

Internet: http://www.educaide.com

Copyright:	Component Titles:	Est. WCP Price(s):
1997	• Acces: The Teacher's Database (Macintosh Version 3.33)	$499.00 (US)
1997	• Acces: The Teacher's Database (DOS/Windows Version 3.32)	$599.00 (US)
1998	• Canadian Math Database (Grades 8-10) (Catalog)	$225.00 (US)

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WCP

The Geometer's Sketchpad
- The Geometer's Sketchpad (Macintosh Version 3)
- The Geometer's Sketchpad (Windows Version 3.03)

Depth Resource

Physical Characteristics:

- Macintosh Version Three 3.5" discs, one binder with User Guide and Reference Manual, 242 pages, softcover, Teaching Notes, 78 pages, Macintosh Quick Reference
- Windows Version Two 3.5" discs, one binder with User Guide and Reference Manual, 240 pages, softcover, Teaching Notes, 78 pages, Windows Quick Reference, one videocassette

NEW

Annotation:

This resource consists of discs, a user guide and reference manual, teaching notes and sample activities, a quick reference, and an introductory video. The resource models geometry in two linked views, sketches and scripts. Sketches depict concrete geometry and emphasize spatial reasoning, while scripts describe constructions verbally and abstractly. The program allows for the construction, labelling, measurement and manipulation of any geometric figure, as well as the exploration of geometry concepts taught in Grade 7 through Grade 9. The user guide and reference manual provide instruction for learning to use the program. The teaching notes and sample activities provide suggestions for classroom use. Several sample investigations, explorations, demonstration and construction activities, on a wide range of geometry topics, are included.

Comments:

- This resource can have greater applications as the user becomes more familiar with the program.
- The system defaults to inches, but it can be set to centimetres.
- The demonstration version allows users to produce sketches, but these sketches cannot be saved, printed or exported to another document.
- Some of the instructions in the reference manual are difficult for the novice user to follow.

System Requirements:

- Macintosh: minimum of a Macintosh Plus, with 1 MB RAM and System 6 or higher. A videocassette supplied with the Windows version supports both Macintosh and Windows.
- Windows 3.1: Windows 3.1 in enhanced mode, 386/33 MHz, 4MB RAM, hard drive. The videocassette supports both Macintosh and Windows versions.
- Windows 95: 486/50 MHz (Pentium recommended), 8MB RAM, hard drive. The videocassette supports both Macintosh and Windows versions.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
								✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
			✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
					✓	✓	✓		

Publisher: Spectrum Educational Supplies Ltd
Distributor: Spectrum Educational Supplies Ltd
125 Mary Street
AURORA, ON CANADA L4G 1G3
Telephone: (800) 668-0600, (905) 841-0600
Fax: (800) 668-0602, (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1995	1559530987	• The Geometer's Sketchpad (Macintosh Version 3)	$289.95
1995	1559530995	• The Geometer's Sketchpad (Windows Version 3.03)	$289.95

NEW

WCP

Hands-on Math Projects with Real-Life Applications: Ready-to-Use Lessons and Materials for Grades 6–12

Teacher Resource

Author(s):
Muschla, G. R., Muschla, J. A.

Physical Characteristics:
365 pages, coilbound

Annotation:
This resource includes a collection of 60 projects, with advice for teachers regarding strategies and assessment. Connections with other subjects is a major focus. Each project provides opportunities for learners to demonstrate their skills and knowledge through various means of communication.

Comments:
- There is some American content, e.g., statistical facts (page 43), and imperial measures (page 81).

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓		

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓			✓	✓		✓	

Publisher: The Center For Applied Research Education, (CARE)
Distributor: Prentice Hall Canada Inc
1870 Birchmount Road
SCARBOROUGH, ON, CANADA M1P 2J7
Telephone: (800) 361-6128, (416) 293-3621
Fax: (416) 299-2529
Internet: http://www.phcanada.com

Copyright: 1996

ISBN: 0876283849

Title:
Hands-on Math Projects with Real-Life Applications: Ready-to-Use Lessons and Materials for Grades 6–12

Est. WCP Price(s): $32.54

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WCP

In the Balance

- In the Balance: Algebra Logic Puzzles: Grades 4–6
- In the Balance: Algebra Logic Puzzles: Grades 7–9

Teacher Resource

Author(s):
Kroner, L.

Physical Characteristics:
- In the Balance: Algebra Logic Puzzles Grades 4-6: 78 pages, coilbound
- In the Balance: Algebra Logic Puzzles Grades 7-9: 78 pages, coilbound

Annotation:
Each of these resources contains 25 reproducible logic-based number puzzles ranging from the simple to the very complex. These are extension activities that support a number of the Common Curriculum Framework mathematical processes.

Comments:
- These resources can also be used at the senior high school level in Relations and Functions.
- It would be beneficial to have both the Grades 4–6 booklet and the Grades 7–9 booklet, as it is necessary to introduce the puzzles at a simple stage of complexity—Grades 4–6—before teaching at the more complex—Grades 7–9—level.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
				✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓		✓	✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓		✓						

Publisher: Creative Publications
Distributor: Addison-Wesley Longman Pearson Education
26 Prince Andrew Place
P.O. Box 580
DON MILLS, ON, CANADA M3C 2T8
Telephone: (800) 387-8028, (416) 447-5101
Fax: (800) 465-0536, (416) 443-0948
Internet: http://www.awl.com/canada

Copyright:	ISBN:	Component Titles:	Est. WCP Price(s):
1997	0762205512	• In the Balance: Algebra Logic Puzzles Grades 4–6	$22.05
1997	0762205520	• In the Balance: Algebra Logic Puzzles Grades 7–9	$22.05

GRADE 9 - LEARNING AND TEACHING RESOURCES

NEW

WCP

Mathematics 9 (Distance Learning Package)

- Module 1: Operations and Number Concepts
- Module 2: Exponential and Scientific Notation
- Module 3: Equations and Inequations
- Module 4: Polynomials
- Module 5: Measurement and Geometry
- Module 6: Data Management
- Assignment Booklets
- Learning Facilitator's Manual
- Video Compilation: *Math Moves* (includes: Solving with More Than One Step); Joe Sceptic; Tilly Tile; Freddie Factor

Breadth and Depth Resource

Physical Characteristics:

- Module 1: Operations and Number Concepts: 106 pages, coilbound
- Module 2: Exponential and Scientific Notation: 131 pages, coilbound
- Module 3: Equations and Inequations: 155 pages, coilbound
- Module 4: Polynomials: 191 pages, coilbound
- Module 5: Measurement and Geometry: 205 pages, coilbound
- Module 6: Data Management: 89 pages, coilbound
- Assignment Booklets: 6 assignment booklets, 15–20 pages each, stapled
- Learning Facilitator's Manual: Approximately 100 pages, loose
- Video Compilation: 1/2" VHS: 58:50 min., 9:25 min., 17:09 min., 19:11 min.

Availability in Alternate Format(s) for Students Who Are Visually Impaired, Print Disabled or Hearing Impaired:

- Access to Publisher's Disks for Production

Annotation:
This resource package consists of six coilbound modules with accompanying assignment booklets. One videocassette on key concepts supports the print material. A learning facilitator's manual is also available. The program correlates exactly with all specific outcomes of the Common Curriculum Framework.

Comments:
This resource package is designed for distance education; however, it would be a very useful package for any classroom teacher.

Audience: General

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
									✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
✓	✓	✓	✓	N/A	✓	✓	✓	✓	✓

Continued

Continued

Publisher: Learning Technologies Branch (LTB) - Alberta Education

Distributor: Learning Technologies Branch (LTB) Alberta Learning
Box 4000
BARRHEAD, AB, CANADA T7N 1P4

Telephone: (780) 674-5350

Fax: (780) 674-6561

Copyright:	**ISBN:**	**Component Titles:**	**Est. WCP Price(s):**
1997	0774110953	• Module 1 Operations and Number Concepts	$16.10
1997	0774112778	• Module 2 Exponential and Scientific Notation	$16.10
1997	0774111275	• Module 3 Equations and Inequations	$16.10
1997	0774111534	• Module 4 Polynomials	$16.10
1997	0774113901	• Module 5 Measurement and Geometry	$16.10
1997	0774113960	• Module 6 Data Management	$16.10
1997		• Assignment Booklets	$12.00
1997	0774110988	• Learning Facilitator's Manual	$60.00
1991-1994		• Video Compilation *Math Moves* (includes Solving with More Than One Step), Joe Sceptic, Tilly Tile, Freddie Factor	$46.00

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NEW

WCP

Polydron

Mathematics with Polydron

Teacher Resource

Author(s):
Ansell, B., Baker, L., Harris, I.

Physical Characteristics:
Approximately 100 pages, coilbound

Annotation:
This resource contains 36 activities involving the use of polydrons. Each activity consists of a teacher sheet and a student activity sheet that can be photocopied. These activities can be used to meet student outcomes in Shape and Space (3-D Objects and 2-D Shapes) for Grade 7 to Grade 9.

Audience: Teachers

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
							✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓			✓	✓		✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
						✓			

Publisher: Cuisenaire Company of America, Inc
Distributor: Spectrum Educational Supplies Ltd
125 Mary Street
AURORA, ON, CANADA L4G 1G3
Telephone: (800) 668-0600 ; (905) 841-0600
Fax: (800) 668-0602 ; (905) 727-6265
Internet: http://www.spectrumed.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1994	0952381508	Mathematics with Polydron	$49.95

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NEW
WCP

Tenth Planet Explores Math: Geometry
Mirror Symmetry (Version 1.0 for Macintosh and Windows)

Annotation:
This resource allows for an extensive exploration of symmetry and related concepts. It includes a wide range of learning activities that span simple to complex applications. The resource promotes independent learning, critical thinking and connections to real-world situations, and encourages mathematical communication - oral and written. Teacher support materials include a teacher guide that has many extension and assessment tasks, and a computer component that provides flexible class management options.

Depth Resource

Physical Characteristics:
One CD-ROM; Teaching Guide - 86 pages, coilbound; Quick Reference Card; "At a Glance" card; Technical Guide - 30 pages, softcover - all in a 3-ring binder

Comments:
- The teacher support materials can be used for classroom management of specific student tasks and for assessment of individual students.
- The resource provides opportunities for a wide range of student learning needs.
- One activity uses American coins.

System Requirements:
- Macintosh - System 7.1 or higher; Macintosh LC II or higher (25 MHz 68030 processor or better); 8 MB RAM (5 MB available); 256 colour 13-inch monitor; double speed CD drive; approximately 14 MB free hard disk space; microphone (built-in or external)
- Windows 3.1 - 486 DX2-66 MHz (Pentium recommended); 8 MB installed RAM; SVGA 256 colour compatible video card and monitor; double speed CD drive; approximately 12 MB free hard disk space; microphone (built-in or external); Sound Blaster card or equivalent; mouse
- Windows 95 - 486/DX2-66 MHz (Pentium recommended); 8 MB installed RAM; SVGA 256 colour compatible video card and monitor; double speed CD drive; approximately 12 MB free hard disk space; microphone (built-in or external); Sound Blaster card or equivalent; mouse

Audience: General/ESL/Gifted/LD/ID (Mild)

Grade Level(s):

K	1	2	3	4	5	6	7	8	9
		✓	✓	✓	✓	✓	✓	✓	✓

Mathematical Process(es):

Communication	Connections	Estimation and Mental Math	Problem Solving	Reasoning	Technology	Visualization
✓	✓	✓	✓	✓	✓	✓

Strand(s)/Substrand(s):

Number		Patterns and Relations			Shape and Space			Statistics and Probability	
Number Concepts	Number Operations	Patterns	Variables and Equations	Relations and Functions	Measurement	3-D Objects and 2-D Shapes	Transformations	Data Analysis	Chance and Uncertainty
							✓		

Publisher: Sunburst Communications
Distributor: Gage Educational Publishing Co.
164 Commander Boulevard
SCARBOROUGH, ON, CANADA M1S 3C7
Telephone: (800) 667-1115 ; (416) 293-8464
Fax: (416) 293-9009
Internet: http://www.gagelearning.com

Copyright:	ISBN:	Title:	Est. WCP Price(s):
1997, 1998	188861868X (Teaching Guide)	Mirror Symmetry (Version 1.0 for Macintosh and Windows)	$99.95

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TITLE LISTING

TITLE/SERIES	GRADE(S)
NEW ABCirque! (English Macintosh/Windows Version)	K
Acces: The Teacher's Database	8, 9
NEW • Acces: The Teacher's Database (Macintosh Version 3.33)	
NEW • Acces: The Teacher's Database (DOS/Windows Version 3.32)	
NEW • Canadian Math Database (Grades 8-10) (Catalog)	
MathMania Series	6, 7, 8
NEW Cool Math Games: Grades 7–10	
NEW Data Explorer (Version 1.1 for Macintosh and Windows)	4, 5, 6
Active Learning Series	K, 1, 2, 3
NEW The Exclusive Numberline: Teaching Number Sense and Numeration: Grades K–3, Ages 5–8	
NEW 50 Problem Solving Lessons	1, 2, 3, 4, 5, 6
Gage Mathematics Assessment (Grade 3)	3
NEW • Assessment Activities 3A	
NEW • Assessment Activities 3B	
NEW • Teacher's Resource Book: Grade 3	
Gage Mathematics Assessment (Grade 7)	7
NEW Gage Mathematics Assessment Activities 7A (Grade 7)	
Gage Mathematics Assessment (Grade 8)	8
NEW Gage Mathematics Assessment Activities 8A (Grade 8)	
The Geometer's Sketchpad	8, 9
• The Geometer's Sketchpad (Macintosh Version 3)	
• The Geometer's Sketchpad (Windows Version 3.03)	
NEW Graphers (Macintosh/Windows Version)	K, 1, 2, 3, 4
NEW Hands-On Math: Manipulatives Activities for the K–1 Classroom	K, 1
NEW Hands-on Math Projects with Real-Life Applications: Ready-to-Use Lessons and Materials for Grades 6–12	7, 8, 9
In the Balance	4, 5, 6, 7, 8, 9
NEW • In the Balance: Algebra Logic Puzzles: Grades 4–6	
NEW • In the Balance: Algebra Logic Puzzles: Grades 7–9	

TITLE LISTING

	TITLE/SERIES	GRADE(S)
NEW	*Active Learning Series* Just a Minute: Activities for Spare Moments in Class: Grades 5–8, Ages 10–13	5, 6, 7,
NEW	*Kay Toliver Files 2* • Distance, Time and Speed • Statistics • Circles • Decimals • Kay Toliver Files 2: Teacher's Guide	4, 5, 6, 7
NEW	*Kay Toliver Files 3* • Patterns • Length and Area • Volume • The Counting Principle • Kay Toliver Files 3: Teacher's Guide	4, 5, 6, 7
NEW	*Kay Toliver Files 4* • Variables • Ratios • Charts and Graphs • Percents • Kay Toliver Files 4: Teacher's Guide	4, 5, 6, 7
NEW	*Active Learning Series* Learn with "Matty" on the Calcu-Mat: Grades K–3, Ages 5–8	K, 1
NEW	*Math By All Means* Math by All Means: Area and Perimeter: Grades 5–6	4, 5, 6
NEW	Math On the Go II: Junior: Grades 4–6, Ages 9–11	4, 5, 6
NEW	*Mathematics 8 (Distance Learning Package)* • Module 1: Number Connections • Module 2: Patterns and Relations • Module 3: Number Applications • Module 4: Two-Dimensional Geometry • Module 5: Probability and Statistics • Module 6: Three-Dimensional Geometry • Assignment Booklets • Learning Facilitator's Manual • Video 1 Compilation: *Math Moves* (includes: Adding and Subtracting Fractions; Multiplying and Dividing Fractions; Equations: Solving with One Step; Equations: Solving with More Than One Step) • Video 2 Compilation: *Math Moves* (includes: The Percent; Number Theory); *Mathways* (includes: Areas; Volumes)	8

TITLE LISTING

TITLE/SERIES	GRADE(S)
NEW *Mathematics 9 (Distance Learning Package)* • Module 1: Operations and Number Concepts • Module 2: Exponential and Scientific Notation • Module 3: Equations and Inequations • Module 4: Polynomials • Module 5: Measurement and Geometry • Module 6: Data Management • Assignment Booklets • Learning Facilitator's Manual • Video Compilation: *Math Moves* (includes: Solving with More Than One Step); Joe Sceptic; Tilly Tile; Freddie Factor	9
Polydron NEW Mathematics with Polydron	7, 8, 9
NEW Measure for Measure: Using Portfolios in K–8 Mathematics	K, 1, 2, 3, 4, 5, 6, 7, 8
Mighty Math NEW Mighty Math Carnival Countdown (Macintosh/Windows School Version)	K, 1, 2
Tenth Planet Explores Math: Geometry NEW Mirror Symmetry (Version 1.0 for Macintosh and Windows)	2, 3, 4, 5, 6, 7, 8, 9
Quest 2000: Exploring Mathematics (Grade 1) • Student Book (Revised Ed.) • Teacher's Guide and Journal (Revised Ed.) • Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) • Teacher Support Package • Problem of the Week • Professional Handbook (Revised Ed.) NEW • Developing Number Strategies NEW • Exploration Centres: Activity Cards	1
Quest 2000: Exploring Mathematics (Grade 2) • Student Book • Teacher's Guide and Journal (Revised Edition) • Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) • Teacher Support Package • Problem of the Week • Professional Handbook (Revised Ed.) NEW • Developing Number Strategies NEW • Exploration Centres: Activity Cards (Revised Edition)	2

TITLE LISTING

TITLE/SERIES	**GRADE(S)**
Quest 2000: Exploring Mathematics (Grade 3)	
• Student Book (Revised Edition)	
• Teacher's Guide and Journal	
• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)	
• Teacher Support Package	
• Technology Package	
• Problem of the Week	
• Professional Handbook (Revised Ed.)	
NEW • Developing Number Strategies	
NEW • Exploration Centres: Activity Cards (Revised Edition)	
Quest 2000: Exploring Mathematics (Grade 4)	4
• Student Book	
• Teacher's Guide & Journal; Solutions Manual	
• Extra Practice & Testing Masters (Student's Edition; Teacher's Edition with Answers)	
• Teacher Support Package	
• Technology Package	
• Problem of the Week	
• Professional Handbook (Revised Ed.)	
NEW • Developing Number Strategies	
NEW • Exploration Centres: Activity Cards (Revised Edition)	
Quest 2000: Exploring Mathematics (Grade 5)	5
• Student Book	
• Teacher's Guide & Journal; Solutions Manual	
• Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers)	
• Teacher Support Package	
• Technology Package	
• Problem of the Week	
• Professional Handbook (Revised Ed.)	
NEW • Developing Number Strategies	
NEW • Exploration Centres: Activity Cards (Revised Edition)	

TITLE LISTING

TITLE/SERIES	GRADE(S)
Quest 2000: Exploring Mathematics (Grade 6) • Student Book • Teacher's Guide & Journal; Solutions Manual • Extra Practice and Testing Masters (Student Edition; Teacher's Edition with Answers) • Teacher Support Package • Technology Package • Problem of the Week • Professional Handbook (Revised Ed.) NEW • Developing Number Strategies NEW • Exploration Centres: Activity Cards (Revised Edition)	6
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol NEW Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 2	2
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol NEW Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 3	3
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol NEW Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 4	4
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol NEW Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 5	5
Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol NEW Solutions & Extensions for Illustrative Examples from the Western Canadian Protocol: Grade 6	6
Assessment Bookshelf Series NEW Student Generated Rubrics: An Assessment Model to Help All Students Succeed	K, 1, 2, 3, 4, 5, 6
The Super Source NEW The Super Source: Geoboards	K, 1, 2
The Super Source NEW The Super Source: Snap Cubes	K, 1, 2, 3, 4
The Super Source NEW The Super Source: Tangrams	5, 6
NEW Using the Explorer Plus Calculator	7, 8
NEW Writing in Math Class: A Resource for Grades 2–8	2, 3, 4, 5, 6, 7, 8